

20010122.qrp v02\_n075.qrl.20010122

Date: Mon, 22 Jan 2001 19:03:09 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2075

## QRP-L Digest 2075

Topics covered in this issue include:

- 1) [89222] Re: email address for WWV/WWVH survey request  
by "Karl F. Larsen" <k5di@zianet.com>
- 2) [89223] Antenna Tuner Loss  
by "Karl F. Larsen" <k5di@zianet.com>
- 3) [89224] If You Missed-Out on the January QQ--Let's Fix It  
by "Craig W. Behrens" <craigwb@hiwaay.net>
- 4) [89225] Fw: Snow White virus..A partial Fix  
by "Walt Amos" <k8cv@netzero.net>
- 5) [89226] QQ  
by "Walt Amos" <k8cv@netzero.net>
- 6) [89227] Re: Multi band inverted vee advice  
by Steve Yates - AA5TB <aa5tb@arrl.net>
- 7) [89228] Re: Being Had?--Seems Like It  
by W2SH@aol.com
- 8) [89229] FOX - Team Results - correction1 -  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 9) [89230] Warbler: Round 3 Kit Update  
by "George Heron" <n2apb@erols.com>
- 10) [89231] FOX - Team Results - correction1 - (fwd)  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 11) [89232] FOX - Team Results -  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 12) [89233] Re: ARRL handbook 2001  
by K1DXradio@aol.com
- 13) [89234] Need Kenwood PS-30 schematic  
by K1DXradio@aol.com
- 14) [89235] Re: ARRL handbook 2001  
by KB7WW Art Moe <kb7ww@chatusa.com>
- 15) [89236] Re: Color codes-Inductor and Capacitor  
by Bill Stietenroth <k5zty@juno.com>
- 16) [89237] [ANT] 40M J-Pole?  
by "Dave Benham" <dodgeboy@mindspring.com>
- 17) [89238] Re: Warbler: Round 3 Kit Update  
by "Richard Matthews" <prm@hiwaay.net>
- 18) [89239] Re: Multi band inverted vee advice  
by =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>
- 19) [89240] Contest: MI QSO Party K7RE

- by Brian Kassel <bkassel@dancris.com>
- 20) [89241] Re: Multi band inverted vee advice  
by Steve Yates - AA5TB <aa5tb@arrl.net>
- 21) [89242] Re: [ANT] 40M J-Pole?  
by Steve Yates - AA5TB <aa5tb@arrl.net>
- 22) [89243] Bill Cheek Passing  
by "Denis Englander" <ko6gf@slip.net>
- 23) [89244] Re: Antenna Tuner Loss  
by "John Moriarity" <k6qq@hdo.net>
- 24) [89245] Re: about tuner losses -- "can't be true"  
by "Adrian Weiss" <aweiss@usd.edu>
- 25) [89246] Re: [ANT] 40M J-Pole?  
by "Gordon Couger" <gcouger@couger.com>
- 26) [89247] Re: Multi band inverted vee advice  
by "Adrian Weiss" <aweiss@usd.edu>
- 27) [89248] Re: Multi band inverted vee advice  
by "Trevor Jacobs" <fxtech@earthlink.net>
- 28) [89249] Re: [ANT] 40M J-Pole?  
by Mike <mmorrow@companet.net>
- 29) [89250] RE: about tuner losses -- "can't be true"  
by "Andrew Catanzaro" <acatan@execpc.com>
- 30) [89251] RE: QQ  
by "John L. Sielke" <w2agn@pobox.com>
- 31) [89252] Transceivers for backpacking (lost messages!!!)  
by oxf01@maxmail.co.uk
- 32) [89253] FOX - AF4PS - Monday/Tuesday Cub Fox  
by Macstein@aol.com
- 33) [89254] RE: about tuner losses -- "can't be true"  
by "Karl F. Larsen" <k5di@zianet.com>
- 34) [89255] Re: Help!! (fwd)  
by Rick Robinson <rrobins@email.uncc.edu>
- 35) [89256] Re: Help  
by Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>
- 36) [89257] Re: ARRL Handbook and B&N  
by Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>
- 37) [89258] FOX - Team Results -  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 38) [89259] Re: Help  
by Bruce Muscolino <w6toy@erols.com>
- 39) [89260] Re: ARRL Handbook and B&N  
by Stephen Hawkins <grayline@mindspring.com>
- 40) [89261] Re: about tuner losses -- "can't be true"  
by "Don Wilhelm" <w3fpr@arrl.net>
- 41) [89262] Manual for Conar 255 Scope? and info on Conar?  
by Dave Millican <kg4jqv@yahoo.com>
- 42) [89263] Re: Barnes/ARRL Handbook  
by Bill Coleman <aa4lr@arrl.net>
- 43) [89264] Anyone need Utah?

- by Bill Coleman <aa4lr@arrl.net>
- 44) [89265] FOX - Team Results -  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 45) [89266] MI QRP Net  
by ed.kwik@delphiauto.com
- 46) [89267] Re: Barnes/ARRL Handbook  
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
- 47) [89268] OT: Need To Find FISTS Stations in South Dakota  
by "Jerry Bartachek" <Jerry.Bartachek@dnr.state.ia.us>
- 48) [89269] Best source: copper clad board  
by hattonte@gdls.com
- 49) [89270] QQ  
by Bcieslak@ra.rockwell.com
- 50) [89271] Re: email address for WWV/WWVH survey request  
by "laura halliday" <marsgal42@hotmail.com>
- 51) [89272] QRPp question  
by "Mugleston, Brad" <brad.mugleston@gwl.com>
- 52) [89273] FS QRP stuff  
by "Ronald A. Pfeiffer" <Ronald\_A\_Pfeiffer@res.raytheon.com>
- 53) [89274] fs: LDG QRP autotuner  
by peter murphy <pete@c-zone.net>
- 54) [89275] Re: Best source: copper clad board  
by Bruce Muscolino <w6toy@erols.com>
- 55) [89276] End Feed Half Wave  
by ed.kwik@delphiauto.com
- 56) [89277] Clunkier Klunky Schematic Draw Web Page  
by <wd9eyb@butler.qrp.com>
- 57) [89278] RE: Corrosion/Stranded Wire  
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 58) [89279] Re: Multi band inverted vee advice  
by "Steven Weber" <kd1jv@moose.ncia.net>
- 59) [89280] end fed half wave info?  
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
- 60) [89281] FS QRP stuff UPDATE  
by "Ronald A. Pfeiffer" <Ronald\_A\_Pfeiffer@res.raytheon.com>
- 61) [89282] Re: about tuner losses  
by "Ron, KU7Y" <ku7y@qsl.net>
- 62) [89283] RE: QRPp question  
by "Mugleston, Brad" <brad.mugleston@gwl.com>
- 63) [89284] Re: end fed half wave info?  
by "Larry Spinner" <n2icz@hotmail.com>
- 64) [89285] Re: end fed half wave info?  
by Bill Jones <kd7s@psnw.com>
- 65) [89286] Klunky VFO  
by <wd9eyb@butler.qrp.com>
- 66) [89287] Re: email address for WWV/WWVH survey request  
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
- 67) [89288] What tuner manual says

by RangerSF5@aol.com

68) [89289] Re: What tuner manual says  
by Bruce Muscolino <w6toy@erols.com>

69) [89290] Re: Klunky VFO  
by <wd9eyb@butler.qrp.com>

70) [89291] Re: Klunky VFO  
by <wd9eyb@butler.qrp.com>

71) [89292] Dumb Aerial Question  
by K4YBB@aol.com

72) [89293] Re: What tuner manual says  
by "George, W5YR" <w5yr@att.net>

73) [89294] Klunky Schematics!  
by Euramcom <mel@euramcom.freemove.co.uk>

74) [89295] Re: Help  
by "Carlos Caro" <cjcaro35@hotmail.com>

75) [89296] Re: Dumb Aerial Question  
by Phil Wheeler <w7ox@earthlink.net>

76) [89297] Re: end fed half wave info?  
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>

77) [89298] Re: Help  
by Bruce Muscolino <w6toy@erols.com>

78) [89299] Re: What tuner manual says  
by "Don Wilhelm" <w3fpr@arrl.net>

79) [89300] Re: end fed half wave info?  
by "Karl F. Larsen" <k5di@zianet.com>

80) [89301] Re: Dumb Aerial Question  
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>

81) [89302] WHAT THE TUNER MANUAL SAYS  
by RangerSF5@aol.com

82) [89303] Re: Best source: copper clad board  
by "John J. McDonough" <wb8rcr@arrl.net>

83) [89304] Re:Corrosion/stranded wire  
by Bill ROWLETT <kc4atu@yahoo.com>

84) [89305] FS: Last Call on Freq Counter and SWL Receiver..  
by "Phinizy, William" <wphinizy@filenet.com>

85) [89306] Re: Dumb Aerial Question  
by "George, W5YR" <w5yr@att.net>

86) [89307] Re: about tuner losses -- "can't be true"  
by Shelly Somerville <somerville@uniserve.com>

87) [89308] Re: WHAT THE TUNER MANUAL SAYS  
by "George, W5YR" <w5yr@att.net>

88) [89309] Contest: MI QSO Party WA4DOU  
by wa4dou@excite.com

89) [89310] Re: What tuner manual says  
by "George, W5YR" <w5yr@att.net>

90) [89311] Re: Dumb Aerial Question  
by John Wagner <john@neknetwork.com>

-----  
Date: Sun, 21 Jan 2001 17:14:21 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: "n4qa@juno.com" <n4qa@juno.com>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89222] Re: email address for WWV/WWVH survey request  
Message-ID: <Pine.LNX.4.31.0101211713300.870-1000000@cannac.ampr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

You need a name and password to get on that web page. I have neither. They don't want my vote.

On Sun, 21 Jan 2001, n4qa@juno.com wrote:

> Listening to WWV at 15 mHz on my brand-spanking-new DSW-20 kit rig, I  
> copy the email address for requesting to be included in the WWV/WWVH  
> user survey as:  
>  
> nist.radio@boulder.nist.gov  
>  
> See also, info given in original post:  
>  
> We all use WWV...RIGHT?  
>  
> 73-1,  
> Bill, N4QA  
>  
>  
>  
>  
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Sun, 21 Jan 2001 17:27:48 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: <qrp-l@lehigh.edu>  
Subject: [89223] Antenna Tuner Loss  
Message-ID: <Pine.LNX.4.31.0101211718320.870-1000000@cannac.ampr.org>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

I recall a test I ran last year in which on 20 meters I connected 2 near identical MFJ model 941C together via a 450 ohm ribbon 5 inches long. I applied a measured 100 watts to the pair of tuners and adjusted both such that both tuners showed 1-1 VSWR. The power went into one tuner and out to a 50 ohm load.

When the power was set to 100 watts, the meter was moved to the output and that power was measured as 98 watts, meaning there was 1 watt lost in each tuner.

At 5 watts power you will loose .05 watts going through the tuner, and we can live with that...:-)

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Sun, 21 Jan 2001 18:44:06 -0600  
From: "Craig W. Behrens" <craigwb@hiwaay.net>  
To: "QRP-L QRP-L" <qrp-l@Lehigh.EDU>, "Bruce Rattray" <rattray@gpfn.sk.ca>  
Subject: [89224] If You Missed-Out on the January QQ--Let's Fix It  
Message-ID: <LPBBIKBNB00LHAAJAHJGOELKCFAA.craigwb@hiwaay.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

We ran extra copies of the January QRP Quarterly this time, because this year is QRP ARCI's 40th Anniversary and the QQ issues are special collectors items.

If your QRP ARCI membership lapsed or you didn't get your membership in on time for some reason, let me know--we'll fix it!

This time...for \$20 you can get the January QQ immediately sent First Class to you and you would also have your \$15 membership dues in for the next 4 issues. (NOTE: First class postage is almost 2 bucks.)

Or, extra copies can be purchased as gifts, etc. Since shipping is so expensive these days, let me know what you want and we'll see what we can do. Also, these would be great gifts for club activities and we try to give special price breaks for clubs--please let me know your club needs. (My

local radio club gives this kind of gift as door prizes to new visitors, as an example.)

Act soon--it's too expensive to do additional small volume runs, so when these are gone...they're gone.

Thanks for promoting QRP and supporting QRP ARCI.

72/73 & DX,  
Craig W. Behrens--NM4T, QQ Editor  
Madison, AL

-----  
Date: Sat, 20 Jan 2001 20:33:18 -0500  
From: "Walt Amos" <k8cv@netzero.net>  
To: "Qrp-L Posts" <qrp-l@lehigh.edu>  
Subject: [89225] Fw: Snow White virus..A partial Fix  
Message-ID: <000101c0840c\$a8cdafa0\$e9891b26@waltamos>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The one I got came in at the same time as posts from

w4bws@juno.com

and

craig w. behrens

so it probably is going out when one of them send mail?

Walt k8cv

----- Original Message -----

From: "bob baxter" <rbaxter@cybertrails.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Saturday, January 20, 2001 2:10 AM  
Subject: Re: Snow White virus..A partial Fix

> Ron and Group,  
> I sure hope someone comes up with a fix. I'm getting an average of one  
> "Snow White" a day.

> Bob Baxter AA7EQ  
> Bisbee, Az.  
>  
>

Shop online without a credit card  
<http://www.rocketcash.com>  
RocketCash, a NetZero subsidiary

-----  
Date: Sat, 20 Jan 2001 21:08:19 -0500  
From: "Walt Amos" <k8cv@netzero.net>  
To: "Qrp-L Posts" <qrp-l@lehigh.edu>  
Subject: [89226] QQ  
Message-ID: <000801c0840c\$b182fec0\$e9891b26@waltamos>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I didn't receive mine.

Now aren't you all interested in that FACTOID!!

Walt

Shop online without a credit card  
<http://www.rocketcash.com>  
RocketCash, a NetZero subsidiary

-----  
Date: Sun, 21 Jan 2001 18:49:38 -0600  
From: Steve Yates - AA5TB <aa5tb@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89227] Re: Multi band inverted vee advice  
Message-ID: <002f01c0840d\$3343da60\$262abcd0@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Been there, done that :-)

There is A LOT of interaction between the individual "resonant" dipoles so the lengths may end up no where near the free space 1/2 wavelength.



Separate the elements as far apart as you can. If the elements are close together (such as the infamous parallel rotor cable dipole) the antenna starts to electrically look more like one fat, tapered conductor rather than individual dipoles. Remember that the dipoles don't have to all be in the same plane either. It can be made to work but I found the complexity of stringing up all of the individual dipole elements made adjusting the elements to resonance a nightmare. I started to get arachnophobia.

If you still want to try and make it work start adjusting the length of the highest band first. Once you get that band adjusted properly move down to the next lower band and so on.

I personally like to adhere to the KISS principle and this antenna violates this principle, at least mine did :-)

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs  
aa5tb@arrl.net  
<http://www.geocities.com/aa5tb>

-----  
Date: Sun, 21 Jan 2001 20:05:01 EST  
From: W2SH@aol.com  
To: qrp-l@lehigh.edu  
Subject: [89228] Re: Being Had?--Seems Like It  
Message-ID: <91.5d5c6d7.279ce13d@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I remember hearing about an OT who would periodically take steel wool to polish up the plug-in tank coils used in his QRO rig. I can understand that surface conductivity suffers when the copper turns green, but wouldn't think there'd be much to fret about when it just goes from shiny to dull. A thin layer of, say, a high quality nylon coating would solve the problem less expensively, I should think, than silver plating.

In my judgment, the real pea brains are those, all of them, who never question the "received wisdom." Just because one group of them turns a fast buck concluding profitable commercial dealings with another group doesn't then transform them into super heroes. Instead, this is just the "bigger fool" scenario. The expression, I believe, originated years ago in Wall Street, when it was explained that the way for a fool to become rich was to buy a share of stock knowing that it could be unloaded on someone else at a higher price because the next buyer was a bigger fool.

Charles, W2SH

-----  
Date: Sun, 21 Jan 2001 19:23:33 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>  
Subject: [89229] FOX - Team Results - correction1 -  
Message-ID: <Pine.LNX.3.95.1010121192149.27226B-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

...I missed George, W5YR, so I've added a point there for the "Tornados".

In memory of Joel, K1QM(SK) -

...Hunt #24 - W8RU -

The Raiders of the Lost RF - 52	The Big Dawgs - 111
Mary - NA6E	ET - N1FN *
Fred - VE3FAL	Tom - N5TW *
Rob - VE6JAZ	Larry- N2WW
Earl - VA6RF *	Bill - K0MP *
Bruce- VE5RC *	Bob - N6WG *
The ScQRPions - 96	The Flying Pigs #1 - 32
Floyd - NQ7X *	Diz - W8DIZ
Brian - K7RE	Rick - WB6JBM
Conard- WS4S *	Dan - N8IE
Chuck - K7QO	Brian- KB9BVN
Bob - NK7M *	Dave - WR50 *
The Cheeseheads - 104	The Houston Hounds - 102
Brian - AE9K	Bill - K5ZTY *
Jerry - N9AW *	Bill - W5SB *
Rick - NK9G	Terry- KQ5U
Lou - W9XU	Dan - KK5LD *
Jim - WA9TZE	Danny- WA5OJE *
The New England Hunt Club - 38	The Swamp Rats - 80
Joel - K1QM(SK)	Paul - K4FB *
John - K1JD	Jack - K4BYF *
Jim - KC1FB *	Pete - NV4V * Clean Sweep
Aron - N1ODL *	Fred - W2XN

John - KB1ENS  
Seab - AA1MY

Tom - N1TP \*

The Buffalo Wings - 33  
Mark - K2QO  
Dave - AA2PF  
Howard- K2UD  
Bob - K2VNM  
Scott - AC3A

The Bayou City Brass Pounders - 107  
Ed - K5VUU \*  
Bob - N5ET \*  
Henry - W5HNS \*  
OJ - K10J  
Bruce - N1LN \*

The Flying Pigs#2 - 13  
Andy - N8MX  
Kent - KB9VZS  
Ron - N8VAR  
Kenn - KM7KEN  
Andrew - AC7CF

The Fox Terrors - 101  
Tim - K50I \*  
Don - K5AAR \*  
Karl - K5DI \* Clean Sweep  
Dave - W0CH \*  
Doc - K0EVZ \*

The Cajun Thunder - 61  
Joel - KE1LA  
John - K5JS \*  
Wayne - K5EOA \*  
Jim - N5IB \*  
Tom - AC5JH \*

The Underdogs - 74  
Dan - N4ROA \*  
Roy - AB7CE  
Art - KB7WW  
Glenn - WA7SPY  
Ron - KI0II \*

The VA Hams + OLW - 5  
Mike - KT4FJ  
Doug - W4IDW  
Skip - K0YWD \*  
John - W4IM  
Paul - W2RIA

The NE-TX Tornados - 83  
Bill - K5JHP \*  
Chuck - W5USJ \*  
Don - K5DW \*  
George- W5YR \*  
Rich - N5JI

The Minnesota North Stars - 95  
Mert - W0UFO \*  
Scott- N0AR  
Craig- AA0ZZ  
Jim - N0UR \*  
Pat - K0PC

The Cockroaches - 4  
Gary - KM5TY  
Dave - N0IT  
Rich - K7SZ  
Tom - WA1VAI/3  
Mike - KD5CMN

The Night Owls - 34  
Thom - W18W  
Jim - KJ0C  
Ed - N4XY  
Ronnie- KE4VPN  
John - K7FD/K7LOW \*

The Terminators - 25  
Bill - NT1R  
Thaire - W2APF \*  
David - K7EL  
Bob - N7XY  
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank  
you...72 - Bruce(VE5RC+VE5QRP)

-----  
Date: Sun, 21 Jan 2001 20:24:12 -0500  
From: "George Heron" <n2apb@erols.com>  
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>  
Subject: [89230] Warbler: Round 3 Kit Update  
Message-ID: <01b501c08412\$0afc2b70\$fbee9fea9@gh1pt4>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

We're putting the final touches on this next round of PSK-80 Warbler kits and hope to be shipping sometime this week, as planned.

There are over 100 orders pending to be shipped in this batch ... you can see if your order has been received by checking the Pending Shipment list at <http://www.njqrp.org/warbler/orders.html>

There are plenty more Warblers in stock now and yours can be shipped upon receipt of order starting later this week. See Warbler details at <http://www.njqrp.org/warbler>

73,

--George N2APB , n2apb@amsat.org  
    & Joe N2CX, n2cx@voicenet.com  
for the NJQRP Club at <http://www/njqrp.org>

-----  
Date: Sun, 21 Jan 2001 19:27:44 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [89231] FOX - Team Results - correction1 - (fwd)  
Message-ID: <Pine.LNX.3.95.1010121192523.27226C-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

...I missed George, W5YR, so I've added a point there for the "Tornados".

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Chuck - K7Q0	Brian- KB9BVN

Bob - NK7M \*

Dave - WR50 \*

The Cheeseheads - 104

The Houston Hounds - 102

Brian - AE9K

Bill - K5ZTY \*

Jerry - N9AW \*

Bill - W5SB \*

Rick - NK9G

Terry- KQ5U

Lou - W9XU

Dan - KK5LD \*

Jim - WA9TZE

Danny- WA50JE \*

The New England Hunt Club - 38

The Swamp Rats - 80

Joel - K1QM(SK)

Paul - K4FB \*

John - K1JD

Jack - K4BYF \*

Jim - KC1FB \*

Pete - NV4V \*

Aron - N10DL \*

Fred - W2XN

John - KB1ENS

Tom - N1TP \*

Seab - AA1MY

The Buffalo Wings - 33

The Bayou City Brass Pounders - 107

Mark - K2Q0

Ed - K5VUU \*

Dave - AA2PF

Bob - N5ET \*

Howard- K2UD

Henry - W5HNS \*

Bob - K2VNM

OJ - K10J

Scott - AC3A

Bruce - N1LN \*

The Flying Pigs#2 - 13

The Fox Terrors - 101

Andy - N8MX

Tim - K5OI \*

Kent - KB9VZS

Don - K5AAR \*

Ron - N8VAR

Karl - K5DI \* Clean Sweep

Kenn - KM7KEN

Dave - W0CH \*

Andrew - AC7CF

Doc - K0EVZ \*

The Cajun Thunder - 61

The Underdogs - 74

Joel - KE1LA

Dan - N4ROA \*

John - K5JS \*

Roy - AB7CE

Wayne - K5E0A \*

Art - KB7WW

Jim - N5IB \*

Glenn - WA7SPY

Tom - AC5JH \*

Ron - KI0II \*

The VA Hams + OLW - 5

The NE-TX Tornados - 83

Mike - KT4FJ

Bill - K5JHP \*

Doug - W4IDW

Chuck - W5USJ \*

Skip - K0YWD \*

Don - K5DW \*

John - W4IM

George- W5YR \*

Paul - W2RIA

Rich - N5JI

The Minnesota North Stars - 95

The Cockroaches - 4

Mert - W0UFO \*  
Scott- N0AR  
Craig- AA0ZZ  
Jim - N0UR \*  
Pat - K0PC

Gary - KM5TY  
Dave - N0IT  
Rich - K7SZ  
Tom - WA1VAI/3  
Mike - KD5CMN

The Night Owls - 34  
Thom - WI8W  
Jim - KJ0C  
Ed - N4XY  
Ronnie- KE4VPN  
John - K7FD/K7LOW \*

The Terminators - 25  
Bill - NT1R  
Thaire - W2APF \*  
David - K7EL  
Bob - N7XY  
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank  
you...72 - Bruce(VE5RC+VE5QRP)

-----  
Date: Sun, 21 Jan 2001 19:42:32 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>  
Subject: [89232] FOX - Team Results -  
Message-ID: <Pine.LNX.3.95.1010121193516.27226E-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

In memory of Joel, K1QM(SK) -

...Hunt #25 - KF4AR -

The Raiders of the Lost RF - 53	The Big Dawgs - 116
Mary - NA6E	ET - N1FN *
Fred - VE3FAL	Tom - N5TW *
Rob - VE6JAZ	Larry- N2WW * Clean Sweep
Earl - VA6RF *	Bill - K0MP *
Bruce- VE5RC	Bob - N6WG *
The ScQRPions - 99	The Flying Pigs #1 - 32
Floyd - NQ7X *	Diz - W8DIZ
Brian - K7RE *	Rick - WB6JBM
Conard- WS4S	Dan - N8IE
Chuck - K7Q0	Brian- KB9BVN
Bob - NK7M *	Dave - WR50
The Cheeseheads - 104	The Houston Hounds - 107
Brian - AE9K	Bill - K5ZTY *
Jerry - N9AW	Bill - W5SB *
Rick - NK9G	Terry- KQ5U * Clean Sweep
Lou - W9XU	Dan - KK5LD *
Jim - WA9TZE	Danny- WA5OJE *
The New England Hunt Club - 39	The Swamp Rats - 81
Joel - K1QM(SK)	Paul - K4FB
John - K1JD	Jack - K4BYF
Jim - KC1FB	Pete - NV4V
Aron - N1ODL	Fred - W2XN
John - KB1ENS *	Tom - N1TP *



Seab - AA1MY

The Buffalo Wings - 33

Mark - K2QO  
Dave - AA2PF  
Howard- K2UD  
Bob - K2VNM  
Scott - AC3A

The Bayou City Brass Pounders - 111

Ed - K5VUU \*  
Bob - N5ET \*  
Henry - W5HNS \*  
OJ - K10J  
Bruce - N1LN \*

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Kent - KB9VZS  
Ron - N8VAR  
Kenn - KM7KEN  
Andrew - AC7CF

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Don - K5AAR \*  
Karl - K5DI  
Dave - W0CH \*  
Doc - K0EVZ \*

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John - K5JS  
Wayne - K5EOA \*  
Jim - N5IB  
Tom - AC5JH \*

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Roy - AB7CE  
Art - KB7WW  
Glenn - WA7SPY  
Ron - KI0II \*

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Skip - K0YWD  
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Chuck - W5USJ \*  
Don - K5DW \*  
George- W5YR \*  
Rich - N5JI

The Minnesota North Stars - 99

Mert - W0UFO \*  
Scott- N0AR \*  
Craig- AA0ZZ \*  
Jim - N0UR \*  
Pat - K0PC

The Cockroaches - 4

Gary - KM5TY  
Dave - N0IT  
Rich - K7SZ  
Tom - WA1VAI/3  
Mike - KD5CMN

The Night Owls - 36

Thom - WI8W  
Jim - KJ0C \*  
Ed - N4XY  
Ronnie- KE4VPN  
John - K7FD/K7LOW \*

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Bill - NT1R  
Thaire - W2APF  
David - K7EL  
Bob - N7XY  
Anthony- K8ZT

.please let me know of any corrections I need to apply...thank  
you...72 - Bruce(VE5RC+VE5QRP)

-----  
Date: Sun, 21 Jan 2001 20:43:56 EST  
From: K1DXradio@aol.com  
To: qrp-1@lehigh.edu  
Subject: [89233] Re: ARRL handbook 2001  
Message-ID: <7f.f1f4be6.279cea5c@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Good grief! I got stung! A couple of weeks ago I bought one at the Auburn MA B&N and they charged me \$16! Such a deal, yes? I suspect they are just a bit confused in their pricing data entry. Instead of doubling, they halved the price. I don't believe they have any provision for overriding the "discounted" price at the counter. Enjoy!

72 - George

-----  
Date: Sun, 21 Jan 2001 20:47:53 EST  
From: K1DXradio@aol.com  
To: qrp-l@lehigh.edu  
Subject: [89234] Need Kenwood PS-30 schematic  
Message-ID: <b3.60c309e.279ceb49@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Greetings, I've received a broken PS-30, but alas, no manual or schematic. Would any of you kindly scan a legible copy (schematic and part values for semiconductors) and email it to me? Thanks. And if you do, please post a reply here so others don't repeat. 72 - George, K1DX

-----  
Date: Mon, 22 Jan 2001 01:55:00 -0800  
From: KB7WW Art Moe <kb7www@chatusa.com>  
To: K1DXradio@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89235] Re: ARRL handbook 2001  
Message-ID: <3A6C0374.FBF57A46@chatusa.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just returned from B&N with my new hand book, had a friend have set one aside for me when he got his. There is a 75% off sticker on the shrink wrap, so I'm not sure if it's an BAD computer entry or not. Just a good buy. We have called all the stores in the greater Portland Or. area and there and don't seem to to be anymore.

Art  
KB7WW

K1DXradio@aol.com wrote:

>

> Good grief! I got stung! A couple of weeks ago I bought one at the Auburn MA  
> B&N and they charged me \$16! Such a deal, yes? I suspect they are just a bit  
> confused in their pricing data entry. Instead of doubling, they halved the  
> price. I don't believe they have any provision for overriding the  
> "discounted" price at the counter. Enjoy!  
> 72 - George

-----  
Date: Sun, 21 Jan 2001 18:33:04 -0600  
From: Bill Stietenroth <k5zty@juno.com>  
To: aturner13@triad.rr.com  
Cc: qrp-1@Lehigh.EDU  
Subject: [89236] Re: Color codes-Inductor and Capacitor  
Message-ID: <20010121.202018.-3932733.0.k5zty@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

There are plans and instructions for a Cap and Inductance adaptors for  
your DMM in the  
2000 and 2001 ARRL Handbook in the Test and Project section.

Thanks for the calculator site.

Bill, K5ZTY  
Houston, TX

> I would like recommendations for a cap and inductance meter. I need  
> something  
> better than the MFJ259. Anyone have a good homebrew or kit project?  
>  
> Alex Turner- N4BYJ  
>

-----  
Date: Sun, 21 Jan 2001 21:52:36 -0500  
From: "Dave Benham" <dodgeboy@mindspring.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [89237] [ANT] 40M J-Pole?  
Message-ID: <003701c0841e\$6143ea20\$0ed479a5@hqa.chrysler.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Today at our club's swap I bought a 40 meter J-pole antenna. It's about

100' long! That's 10 stories tall! I got it on a lark, but would like to use it. Apparently it was commercially made by West. I'm wondering if anyone has had experience with J-poles on the low bands. How important is it that it be straight and perpendicular to the ground? Has anyone supported one with a helium weather balloon? Any other ideas or information would be greatly appreciated. Thanks.

Dave K8TRF

-----  
Date: Mon, 22 Jan 2001 03:01:35 -0000  
From: "Richard Matthews" <prm@hiwaay.net>  
To: "q" <qrp-1@Lehigh.edu>  
Subject: [89238] Re: Warbler: Round 3 Kit Update  
Message-ID: <001a01c0841f\$a51f04e0\$6f85150c@scottsboro.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> We're putting the final touches on this next round of PSK-80 Warbler kits  
> and hope to be shipping sometime this week, as planned.

> There are plenty more Warblers in stock now and yours can be shipped upon  
> receipt of order starting later this week. See Warbler details at  
> <http://www.njqrp.org/warbler>  
>  
> 73,  
> --George N2APB .....

Fellow hams, if you haven't ordered your Warbler yet, what are you waiting? This has to be one of the best deals to come along in a long time in amateur radio . . it is easy to build, easy to connect to your computer, works great, and you will not believe how much fun PSK-31 is with this fine little transceiver. I've talked to hams all over the country with mine just using a dipole and the reaction by other OPS to it's quality signal is often given.

I don't have any connection to anyone involved in selling the Warbler but just trying to tell you how much I like mine.

73,

Richard WA4NWW I just signed off with a fellow ham in Key Largo using mine  
. . . .this is really great

-----  
Date: Sun, 21 Jan 2001 19:26:27 -0800 (PST)  
From: =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>  
To: qrp-1@Lehigh.EDU  
Subject: [89239] Re: Multi band inverted vee advice  
Message-ID: <20010122032627.160.qmail@web1201.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Steve wrote:

>If you still want to try and make it work start adjusting  
>the length of the  
>highest band first. Once you get that band adjusted  
>properly move down to  
>the next lower band and so on.

Actually, it's the other way around. Trim the LONGEST conductors (LOWEST FREQ) first. Adjustments to the shorter elements will have little impact on the longer, BUT adjustments to the longer will severely impact the tuning on the shorter. As someone else mentioned, the proximity of the band elements to each other influences each other, so the standard dipole length calculations may not work. Start out with a couple FEET more on each leg and trim back from there. ALSO, be advised, the proximity of this antenna "system" above the ground/buildings/etc. also makes a BIG difference in how it is tuned, so don't expect to tune it up a few feet above the ground, then expect it to be resonant when you finally hoist it all the way up. You're gonna have to hoist it up every time you need to check resonance for each band. Sorry, but that's the nature of the beast. Plan on a few hours if building from scratch, and that's if you've got an antenna analyzer at your disposal. Do it right and you won't need a tuner for any of the resonant bands, except the 15m via your 40m elements.

Though they can be a pain to set up, they seem to work ok. I've got a parallel 40/20 up at the moment. Might add the 10m legs in the spring. I'm using scrap pieces of Lexan to separate the elements at about 4" apart. I once set up a temporary 80/40/20/10 for a contest, but arranged the legs more like a spider's legs. That worked very well but couldn't be up

for more than that night as I lived in deed restricted  
Draconia (Southridge Greens, Fort Collins, Colorado) at  
the time.

GL Trevor, es don't give up!  
72/73,  
Dale

=====

=====

Dale Anderson	In the Mt Washington Valley
KB0VCC	Conway, New Hampshire
QRP-L #91 / CQC #251	Grid Sq: FN43KX
ARS #234 / FISTS #3172	<a href="http://www.qsl.net/kb0vcc">http://www.qsl.net/kb0vcc</a>

=====

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Do You Yahoo!?

Yahoo! Auctions - Buy the things you want at great prices.  
<http://auctions.yahoo.com/>

-----

Date: Sun, 21 Jan 2001 17:35:24 -0700  
From: Brian Kassel <[bkassel@dancris.com](mailto:bkassel@dancris.com)>  
To: QRP-L <[QRP-L@lehigh.edu](mailto:QRP-L@lehigh.edu)>, azqrp <[azqrp@extremezone.com](mailto:azqrp@extremezone.com)>  
Subject: [89240] Contest: MI QSO Party K7RE  
Message-ID: <[3A6B804C.4BDA152D@dancris.com](mailto:3A6B804C.4BDA152D@dancris.com)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gangue:

I only worked about 12 hours total in the contest, as the activity level was quite low. Too bad because the conditions were very good. I did a lot of CQ'ing in an effort to stir things up a bit. Did some shack cleaning and maintenance in between calls, so at times I was a little slow on the come back.

I ran 5W with my K-2.  
Software: QRPDUPE

Band	QSOs	Points	Mult's
-----	-----	-----	-----
160	0	0	0

80	0	0	0
40	23	71	19
20	63	180	34
15	44	128	26
10	6	18	4
6	0	0	0
2	0	0	0
-----			
Totals	136	397	87

Total Score: 34,539 Points

High points:

Having the following countries come back to my CQ's

Austria

Japan

As well as Hawaii.

They were running 5W also, and had quite good signals.

Every contest it seems that we all get to know each other's calls a bit better, and that's always fun too.

I checked with my MI sprint score from last year, and in 4 hours worked 99 QSO's, only 37 less than 12 hours in this event! Guys we need to get on and support these events, Super Bowl is NEXT weekend, not the last one ;)

Brian K7RE

-----  
Date: Sun, 21 Jan 2001 21:47:01 -0600  
From: Steve Yates - AA5TB <aa5tb@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89241] Re: Multi band inverted vee advice  
Message-ID: <006b01c08425\$fae76920\$262abcd0@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Dale wrote:

"Actually, it's the other way around. Trim the LONGEST conductors (LOWEST



FREQ) first. "

Your absolutely correct Dale! Thanks for the correction. I was thinking backwards. I built the antenna about 20 years ago.

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs  
aa5tb@arrl.net  
<http://www.geocities.com/aa5tb>

-----  
Date: Sun, 21 Jan 2001 22:06:45 -0600  
From: Steve Yates - AA5TB <aa5tb@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89242] Re: [ANT] 40M J-Pole?  
Message-ID: <00bd01c08428\$bd106360\$262abcd0@aa5tb>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Hi Dave,

Treat your 40m J-Pole as you would any other dipole. You can orientate as a vertical, horizontal, sloper, etc. The part consisting of the parallel conductors is simply a combination transmission line transformer and shorted stub. "Ideally" this part wouldn't radiate and it doesn't have to be orientated the same as the rest of the antenna (the 1/2 wavelength dipole). I would treat the parallel part as you would any other parallel transmission line.

I have thrown together some general information on all sorts of end-fed halfwave antennas on the following Web page:

<http://www.geocities.com/aa5tb/efha.html>

I still need to correct my sketches to show the J-Pole feed as a combination transmission line transformer and shorted stub rather than just a 1/4 wavelength parallel line.

Good luck with your 40m J-Pole.

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs

aa5tb@arrl.net  
<http://www.geocities.com/aa5tb>

-----  
Date: Sun, 21 Jan 2001 20:38:33 -0800  
From: "Denis Englander" <ko6gf@slip.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [89243] Bill Cheek Passing  
Message-ID: <000901c0842d\$3915d220\$f1507fd8@sirus.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Sad to note the passing of William D. Cheek, Sr.  
perhaps better known as Bill Cheek, of scanner  
modification fame. Bill fell to cancer at noon,  
July 22, 2000. His wife Cindy continues their  
efforts. Below is a handy URL for some of their  
work.

<http://www.comtronics.net/>

I had a lot of hours of fun working on the mods  
to my RS-PR02004 scanner, and I always found  
it magical how so much could be done with so  
few components. So rewarding for some of my  
earliest attempts at following schematics, and  
melting solder.

72/73 de K06GF - Denis in SF

-----  
Date: Sun, 21 Jan 2001 21:36:47 -0800  
From: "John Moriarity" <k6qq@hdo.net>  
To: <k5di@zianet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89244] Re: Antenna Tuner Loss  
Message-ID: <006101c08435\$50d14900\$74414cd1@johnmori>

> I recall a test I ran last year in which on 20 meters I connected  
> 2 near identical MFJ model 941C together via a 450 ohm ribbon 5 inches  
> long. I applied a measured 100 watts to the pair of tuners and  
> adjusted  
> both such that both tuners showed 1-1 VSWR. The power went into one

tuner  
> and out to a 50 ohm load.  
>  
> When the power was set to 100 watts, the meter was moved to the  
> output and that power was measured as 98 watts, meaning there was 1  
watt  
> lost in each tuner.  
>  
> At 5 watts power you will loose .05 watts going through the tuner,  
> and we can live with that...:-)

Karl, Karl, Karl. We've been through this before. You are drawing  
a curve through \*one\* data point. Do this with a wide range of  $R \pm jX$   
in between the tuners, and it will be interesting data. Besides, what  
impedance exists between the two tuners in your test? Certainly not 450  
ohms.

73,

John, K6QQ

-----  
Date: Mon, 22 Jan 2001 08:06:55 GMT  
From: "Adrian Weiss" <aweiss@usd.edu>  
To: qrp-l@lehigh.edu  
Subject: [89245] Re: about tuner losses -- "can't be true"  
Message-ID: <G7JVJI03.N7Z@mail.usd.edu>

Hi gang:

The tuner losses thread is another example of a problem that frequently  
occurs here.

On the one hand, Dave W9VES provided a very lucid explanation of the  
quantitative meaning of tuner loss, i.e., 0.5dB, which doesn't sound like  
much, translates into a 11% power absorption by the resistive components  
in a tuner. Dave referenced Frank Witt's articles in QST, and provided the  
links to .pdf copies of them. As Witt pointed out, and as everyone has known  
ever since the effect of a conductor on the flow of r.f. current was revealed,  
loss occurs. The wire comparisons thread taken from QEX quantified the  
amount of loss occurs for various conductors. Ergo, every tune exhibits some  
loss, regardless of the circuit configuration or materials used.

Bob Kellog produced several posting about 4 years ago about results of his

use of Witt's method. Does anyone know if these are archived somewhere?  
I bought the ZM-2 after he found that it was the most efficient tuner he  
had tested.

Next, Andy W9NJY posted on an alternate method using a Bird Wattmeter and  
thermocouple readings. He described his methodology very clearly, and without  
having an E.E. degree, it sure sounds just like stuff I've read in Journ. IEEE.

Way back several years, I described a much less accurate method than  
either Witt's or Andy's. For me, the key was radiated power vs power into the  
tuner. So, field strengths were the basis of my comparing several tuners. This  
kind of comparison can be done with accuracy, but I'll leave that up to some  
more dedicated individual --I just wanted to satisfy myself as to which tuner  
I'd go with for balanced line. Anything using a balun out of a "T" or "L" to  
achieve balance had two problems. Feeder currents were not equal. And they  
all were at least 1dB (switchable attenuator) below various homebrew tuners.

In any event, so much for the measurements and testing department and on  
to a frequent "source" for postings here: the well-known antenna newsgroups.  
It appears that the experts on those newsgroups decided that Witt's method  
was not trustworthy. So, "over 10% [loss] is not reasonable". As for Witt's  
graphs and Kellogg's lists, well, they can't be right. I wonder how the  
newsgroupies  
explained the fact that Witt could match a dead short on the Heath tuner to  
a 1:1 SWR?

Now remember, we're not talking about the transmitter output dropping and making  
the power out of the tuner seem less. Power is being measured on both sides!

So, another caution to the learners on this list. Take a reference like "I read it  
on a  
antenna newsgroup" with a grain of salt. B.S.E.E. types don't publish their  
research on newsgroups. Their writing is subjected to peer review -- as is the  
case with QST articles -- before it is published. Here ... well, any of us non-  
B.S.E.E.  
types can toss in our two cents and get as much space as the next guy. And we  
do!!!

For us, it's best to refer to some real research and summarize it, providing a  
reference to the real item. That's where you find out what is true.

back in my hole....  
72, Ade

-----

Date: Mon, 22 Jan 2001 00:09:36 -0600  
From: "Gordon Couger" <gcouger@couger.com>  
To: <dodgeboy@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89246] Re: [ANT] 40M J-Pole?  
Message-ID: <004e01c08439\$e6441e00\$912cccd0@home.xxx>

----- Original Message -----

From: "Dave Benham" <dodgeboy@mindspring.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Sunday, January 21, 2001 8:52 PM  
Subject: [ANT] 40M J-Pole?

> Today at our club's swap I bought a 40 meter J-pole antenna. It's about  
> 100' long! That's 10 stories tall! I got it on a lark, but would like  
to  
> use it. Apparently it was commercially made by West. I'm wondering if  
> anyone has had experience with J-poles on the low bands. How important  
is  
> it that it be straight and perpendicular to the ground? Has anyone  
> supported one with a helium weather balloon? Any other ideas or  
information  
> would be greatly appreciated. Thanks.  
>  
> Dave K8TRF

It is very important that it be pretty close to vertical. The radiation  
pattern gets real wild and real high angle real quick if you get much  
angle on it. If you have a antenna design program put one in a few degrees  
off and see how badly the radiation pattern degrades.

Gordon W5RED  
G. C. Couger gcouger@provalue.net Stillwater, OK

>

-----

Date: Mon, 22 Jan 2001 08:39:47 GMT  
From: "Adrian Weiss" <aweiss@usd.edu>  
To: qrp-1@Lehigh.EDU  
Subject: [89247] Re: Multi band inverted vee advice  
Message-ID: <G7JX2B02.M8Z@mail.usd.edu>

Hi all:

Notice that the Antennabook shows the radiators spread out, not in parallel.

As Trev suspected and Steve and Dale confirmed, parallel conductors, especially when relatively closely spaced, function as a feedline thru mutual coupling. In the twinlead 2-band dipole example, something constructed to be a feedline was actually used.

The solution is to minimize mutual coupling by changing the planes occupied by the various bands. The use of different trees for different band dipoles is a fine suggestion. There will still be a significant interaction right at the feedpoint where current is at a max, but that diminishes square law w. distance. Changing the planes minimizes it there too.

72, Ade

-----  
Date: Mon, 22 Jan 2001 00:15:25 -0800  
From: "Trevor Jacobs" <fxtech@earthlink.net>  
To: <aweiss@usd.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [89248] Re: Multi band inverted vee advice  
Message-ID: <014f01c0844b\$8c940b60\$8614f4d8@tjacobs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to Ade and everyone else that helped verify what I thought might be going on with the antenna. Well, I think I may give the balanced line antenna another try, as I don't have enough room at this QTH to spread the sections of the antenna for the different band enough apart to make a difference. I went to Joe W1GFH's place yesterday and took a good look at what he's done with his 80 meter inverted vee, and think I may try the same thing here. Basically he comes out of his rig into an MFJ 949E antenna tuner and then goes out of the tuner with a short run of coax out of his window to a Centaur B41LW10-50 4:1 coax to balanced line balun and feeds his 80 meter inverted vee with balanced line. The 80 meter inverted vee works well on all bands 10 through 80 very well. He uses several rigs on this antenna including his Icom 756 and an old Johnson Ranger for AM work on 80 and 10. This antenna sounds like the ticket for me, so I'm going to try something similar except with my 40 meter inverted vee to use on 40 through 10. The last time I experimented with balance line I tried to use the internal balun in the MFJ and had poor results, even after trying different feedline lengths. I think the key is to use a good balun. I'm a little suspicious of

efficiency, but will give it a try. Anyway, I'll be trying that in the next couple of weeks after I do a bit of shack/home cleaning. Funny how things kind of pile up! I'll post the results. Take care...

73

Trev

KG6CYN

----- Original Message -----

From: Adrian Weiss <aweiss@usd.edu>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Monday, January 22, 2001 12:39 AM

Subject: Re: Multi band inverted vee advice

> Hi all:

>

> Notice that the Antennabook shows the radiators spread out, not in parallel.

>

> As Trev suspected and Steve and Dale confirmed, parallel conductors, especially

> when relatively closely spaced, function as a feedline thru mutual coupling. In

> the twinlead 2-band dipole example, something constructed to be a feedline was

> actually used.

>

> The solution is to minimize mutual coupling by changing the planes occupied

> by the various bands. The use of different trees for different band dipoles is

> a fine suggestion. There will still be a significant interaction right at the feedpoint where current is at a max, but that diminishes square law w. distance. Changing

> the planes minimizes it there too.

>

> 72, Ade

>

-----  
Date: Mon, 22 Jan 2001 06:42:59 -0600

From: Mike <mmorrow@companet.net>

To: gcouger@couger.com

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [89249] Re: [ANT] 40M J-Pole?

Message-ID: <3A6C2AD3.4286@companet.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Dave Benham wrote:

> > Today at our club's swap I bought a 40 meter J-pole antenna.

Gordon Couger wrote:

> It is very important that it be pretty close to vertical.

I've always thought of a J-pole as just a slight alteration of the end-fed Zepp antenna that was very popular in the 1930s and earlier. Only, the tuned ladder-line section of the Zepp, which is represented by the parallel elements at the base of the J-pole, is arranged in-line rather than perpendicular to the wire. The traditional HF end-fed Zepp was almost never mounted vertically, for obvious reasons.

I think the horizontal 40m "J-pole" should work as well as any end-fed Zepp, since that's what it is. There's plenty of info on the Zepp in the antenna handbooks.

73,

Mike / KK5F

-----  
Date: Mon, 22 Jan 2001 07:16:51 -0600  
From: "Andrew Catanzaro" <acatan@execpc.com>  
To: <aweiss@usd.edu>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [89250] RE: about tuner losses -- "can't be true"  
Message-ID: <MABBINPHDJFKNGFCACACIELLCAAA.acatan@execpc.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

A Heath tuner can tune a dead short to a 1:1 SWR if it has a lot of internal losses,  
and Witt's article showed it was a very lossy device.

After all the zillion posts re: an \$8 2001 ARRL Handbook, we ought to read the book. Probably most here would agree it is an authoritative publication.

Look at page 22.56. There is a construction article for a MASSIVE antenna



tuner

with special attention paid to decreasing loss in the network. Yet there is still

as much as 98 watts of loss in the inductor under certain operating conditions. The inductor is specially crafted so that it does not melt or detune!

The tuners we realistical have in our shacks and carry in our travels do not quite measure up to the component standards in this Handbook project.

As Adrian points out below, I do not have an EE degree. All it takes is a lot of reading and make some meaningful measurements to come up with knowledge. All of the surmising that is going on in this thread leads to no where. Saying that tuner losses CAN'T exceed a certain amount is a pleasant fairy tale.

Andy W9NJY  
Milwaukee

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Adrian Weiss

Sent: Monday, January 22, 2001 2:07 AM

To: Low Power Amateur Radio Discussion

Subject: Re: about tuner losses -- "can't be true"

Hi gang:

The tuner losses thread is another example of a problem that frequently occurs here.

On the one hand, Dave W9VES provided a very lucid explanation of the quantitative meaning of tuner loss, i.e., 0.5dB, which doesn't sound like much, translates into a 11% power absorption by the resistive components in a tuner. Dave referenced Frank Witt's articles in QST, and provided the links to .pdf copies of them. As Witt pointed out, and as everyone has known ever since the effect of a conductor on the flow of r.f. current was revealed,

loss occurs. The wire comparisons thread taken from QEX quantified the amount of loss occurs for various conductors. Ergo, every tune exhibits some loss, regardless of the circuit configuration or materials used.

Bob Kellog produced several posting about 4 years ago about results of his use of Witt's method. Does anyone know if these are archived somewhere? I bought the ZM-2 after he found that it was the most efficient tuner he

had tested.

Next, Andy W9NJY posted on an alternate method using a Bird Wattmeter and thermocouple readings. He described his methodology very clearly, and without having an E.E. degree, it sure sounds just like stuff I've read in Journ. IEEE.

Way back several years, I described a much less accurate method than either Witt's or Andy's. For me, the key was radiated power vs power into the tuner. So, field strengths were the basis of my comparing several tuners. This kind of comparison can be done with accuracy, but I'll leave that up to some more dedicated individual --I just wanted to satisfy myself as to which tuner I'd go with for balanced line. Anything using a balun out of a "T" or "L" to achieve balance had two problems. Feeder currents were not equal. And they all were at least 1dB (switchable attenuator) below various homebrew tuners.

In any event, so much for the measurements and testing department and on to a frequent "source" for postings here: the well-known antenna newsgroups. It appears that the experts on those newsgroups decided that Witt's method was not trustworthy. So, "over 10% [loss] is not reasonable". As for Witt's graphs and Kellog's lists, well, they can't be right. I wonder how the newsgroupies explained the fact that Witt could match a dead short on the Heath tuner to a 1:1 SWR?

Now remember, we're not talking about the transmitter output dropping and making the power out of the tuner seem less. Power is being measured on both sides!

So, another caution to the learners on this list. Take a reference like "I read it on a antenna newsgroup" with a grain of salt. B.S.E.E. types don't publish their research on newsgroups. Their writing is subjected to peer review -- as is the case with QST articles -- before it is published. Here ... well, any of us non-B.S.E.E. types can toss in our two cents and get as much space as the next guy. And we do!!!

For us, it's best to refer to some real research and summarize it, providing a reference to the real item. That's where you find out what is true.

back in my hole....

72, Ade

-----  
Date: Mon, 22 Jan 2001 08:29:07 -0500 (EST)  
From: "John L. Sielke" <w2agn@pobox.com>  
To: Walt Amos <k8cv@netzero.net>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [89251] RE: QQ  
Message-ID: <XFMail.010122082907.w2agn@pobox.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
MIME-Version: 1.0

Now you are not just playing the game. You should have posted every day since 1/1/01 that yiu had not received your January QQ. Then, when it does come, you post that you received it. Then you post separate messages praising the editor, writers, chairman, their pet dogs, etc, for such a wonderful magazine. Then you send a list of the articles, with your analysis of each.

John W2AGN (being obnoxious is a fine art, learned through years of experience)

On 21-Jan-01 Walt Amos wrote:  
> I didn't receive mine.  
>  
> Now aren't you all interested in that FACTOID!!  
>  
> Walt

-----  
Date: Mon, 22 Jan 2001 13:36:34 -0800  
From: oxf01@maxmail.co.uk  
To: qrp-1@lehigh.edu  
Subject: [89252] Transceivers for backpacking (lost messages!!!)  
Message-ID: <3A6CA7E2.4402@maxmail.co.uk>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Hi everyone,

At the end of last week I posted a request for ideas to reduce current drain/improve performance for backpacking transcievers (original posting included below). I got quite a number of reply's and I thank you

all for them. But.. I had serious problems with my mailbox at the weekend and most got dumped by my ISP! The few that I managed to retrieve are listed below, they are fine. Could I ask the rest to send the message again. Sorry about this. I'm pretty mad at my ISP right now!

The ones I got ok are from:

SM3CLK  
VE7RT  
WA60TP  
AA0B  
W0ZD

Thanks  
Pete, G4CJX

(Anyone else who didn't respond first time, feel free to still send me your ideas)

Original message:

> Hi everyone,  
>  
> When constructing a radio for backpacking purposes there are some additional constraints that have to be taken into consideration. Besides the weight the most important factor is probably the supply current drain from the batteries. I'm compiling a reference list of ideas and techniques that people have developed to deal with these problems.  
>  
> Please e-mail me directly with all your ideas that you've used, no matter how simple, to reduce current drain without degrading performance too much. It could be that you found a particular chip that does the same job but with lower supply current, or you've found a way of reducing that current drain in a particular circuit. It does not matter whether it's rf, audio or what have you. Another example is the commonly used NE602/612 which has low supply current and easy to use but suffers from limitations as a mixer. Perhaps you've found ways to maximize its performance. And then we should not forget the transmit side either.  
>  
> The above are just examples. I'd like to hear about any techniques you've found useful, from the ultra simple to more complex, to minimize current drain and improve performance. When I've got it all compiled I'll post a link to it here for all to use.  
>  
> 72/3  
>  
> Pete, G4CJX

-----  
Date: Mon, 22 Jan 2001 08:45:24 EST  
From: Macstein@aol.com  
To: qrp-1@lehigh.edu  
Subject: [89253] FOX - AF4PS - Monday/Tuesday Cub Fox  
Message-ID: <ea.1050f165.279d9374@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Reminder (to me)...

AF4PS is the Cub Fox Monday January 22, 2001 9:00pm Eastern, (1-23, 0200 UTC)  
7.141 +/- listening up 1-2  
7.137 is the back-up freq -- or another one (grin).

Please don't QRM my little signal by calling on frequency until the last hour, at which time I will check my TX freq for hounds.

I'll send at 10 wpm. (UR CALL) RST FL MAC 4w (UR CALL). Then I'll send "TU DE AF4PS FOX". You can send any speed up to 30 wpm. (I ain't sayin' I'll copy it, though I will try!)

I'll try three different stealth antlers: the loop, the Infamous Attic Dipole, and a not-so stealth-but-temporary G5RV aimed NW.

I'm not out to break 50 contacts. For me, 10 wpm makes that ruff as does my antenna farm. I'll be patient and try to dig you out. I'll probably get those pesky Texans out of the way because they do usually dominate my hearing. Hope I hear a bunch of you!

-MAC-  
AF4PS  
Odessa, FL

-----  
Date: Mon, 22 Jan 2001 07:02:46 -0700 (MST)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: Andrew Catanzaro <acatan@execpc.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [89254] RE: about tuner losses -- "can't be true"  
Message-ID: <Pine.LNX.4.31.0101220654400.803-100000@cannac.ampr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

This is too much. I use a MFJ 941 tuner because transistor rigs don't have pi networks. If you run a NC-2 into a well done vertical antenna with a 2-1 swr you will loose about half the power to heat. The tuner lets me load the RADIO properly. All 5 watts get to the feedline. Then it's up to you to radiate it well with an antenna.

I have a Ten Tec Argonaut that runs through the MFJ 941 tuner to a butternut vertical with a good tuned radial ground. I FOX Hunt and am successful most of the time. Many have said I'm loud. Can't be loosing much in the tuner.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Mon, 22 Jan 2001 09:02:33 -0500  
From: Rick Robinson <rerobins@email.uncc.edu>  
To: ctrask@primenet.com  
Cc: qrp-1@lehigh.edu  
Subject: [89255] Re: Help!! (fwd)  
Message-ID: <v03102807b691ed582a24@[152.15.144.71]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

> Has anybody else received this solicitation for donations to a  
>Ukranian QRP club? Just curious.

It came directly to my work email address and not through a list. I don't know what to think about it, scam or legitimate.

72,

Rick kf4ar

-----  
Date: Mon, 22 Jan 2001 09:14:36 -0500  
From: Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>  
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>  
Subject: [89256] Re: Help  
Message-ID:  
<4F76B3D4A76AD111803B00A0C9893D9C06ED8CC9@cninexchsrv05.crane.navy.mil>

MIME-Version: 1.0  
Content-Type: text/plain

Gang,

I got the email about the Ukranian QRP club too. Funny thing is, it didn't come to my work address (where I get the qrp-l and send my messages from) but instead to my home email address. Wonder where they got that address. Kinda sounds like a scam to me. I mean, has anyone ever heard of these people before? Guess I'm just a little skeptical of anyone or anything that the first time I hear of them they have their hand out. There will probably be some people that send some money though, it probably wouldn't take too many to make it worth their while.

73 de N9KH

-----  
Date: Mon, 22 Jan 2001 09:20:19 -0500  
From: Harris Keith E CONT CNIN <harris\_k@crane.navy.mil>  
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>  
Subject: [89257] Re: ARRL Handbook and B&N  
Message-ID:  
<4F76B3D4A76AD111803B00A0C9893D9C06ED8CCA@cninexchsrv05.crane.navy.mil>  
MIME-Version: 1.0  
Content-Type: text/plain

Well, I made it to the nearest Barnes & Noble and managed to snag the last 2001 handbook on the shelf for the princely sum of \$8 plus the govenor's cut. I don't know if they have any more in stock. Isn't this computerized world wonderful? Life is good, though cold, here in hilly southern Indiana. I figure that gives me \$24 more to put toward the more important stuff in life, like radio equipment.

73 de N9KH

-----  
Date: Mon, 22 Jan 2001 08:31:04 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [89258] FOX - Team Results -  
Message-ID: <Pine.LNX.3.95.1010122082306.20549B-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

In memory of Joel, K1QM(SK) -

...Hunt #26 - N7CQR -

The Raiders of the Lost RF - 55

Mary - NA6E

Fred - VE3FAL

Rob - VE6JAZ

Earl - VA6RF \*

Bruce - VE5RC \*

The Big Dawgs - 121

ET - N1FN \*

Tom - N5TW \*

Larry - N2WW \* Clean Sweep

Bill - K0MP \*

Bob - N6WG \*

The ScQRPions - 104

Floyd - NQ7X \*

Brian - K7RE \*

Conard - WS4S \* Clean Sweep

Chuck - K7QO \*

Bob - NK7M \*

The Flying Pigs #1 - 34

Diz - W8DIZ

Rick - WB6JBM

Dan - N8IE \*

Brian - KB9BVN

Dave - WR50 \*

The Cheeseheads - 111

Brian - AE9K \*

Jerry - N9AW \*

Rick - NK9G \* Clean Sweep

Lou - W9XU \*

Jim - WA9TZE \*

The Houston Hounds - 112

Bill - K5ZTY \*

Bill - W5SB \*

Terry - KQ5U \* Clean Sweep

Dan - KK5LD \*

Danny - WA5OJE \*

The New England Hunt Club - 40

Joel - K1QM(SK)

John - K1JD

Jim - KC1FB \*

Aron - N1ODL

John - KB1ENS

Seab - AA1MY

The Swamp Rats - 83

Paul - K4FB

Jack - K4BYF

Pete - NV4V \*

Fred - W2XN

Tom - N1TP \*

The Buffalo Wings - 34

Mark - K2QO \*

Dave - AA2PF

Howard - K2UD

Bob - K2VNM

Scott - AC3A

The Bayou City Brass Pounders - 116

Ed - K5VUU \*

Bob - N5ET \*

Henry - W5HNS \* Clean Sweep

OJ - K10J \*

Bruce - N1LN \*

The Flying Pigs #2 - 13

Andy - N8MX

Kent - KB9VZS

Ron - N8VAR

Kenn - KM7KEN

Andrew - AC7CF

The Fox Terrors - 109

Tim - K50I \*

Don - K5AAR \*

Karl - K5DI

Dave - W0CH \*

Doc - K0EVZ \*



The Cajun Thunder - 65

Joel - KE1LA

John - K5JS

Wayne - K5EOA \*

Jim - N5IB

Tom - AC5JH \*

The Underdogs - 78

Dan - N4ROA \*

Roy - AB7CE

Art - KB7WW \*

Glenn - WA7SPY

Ron - KI0II \*

The VA Hams + OLW - 5

Mike - KT4FJ

Doug - W4IDW

Skip - K0YWD

John - W4IM

Paul - W2RIA

The NE-TX Tornados - 92

Bill - K5JHP \*

Chuck - W5USJ \*

Don - K5DW \* Clean Sweep

George- W5YR \*

Rich - N5JI \*

The Minnesota North Stars - 101

Mert - W0UFO

Scott- N0AR

Craig- AA0ZZ \*

Jim - N0UR

Pat - K0PC \*

The Cockroaches - 4

Gary - KM5TY

Dave - N0IT

Rich - K7SZ

Tom - WA1VAI/3

Mike - KD5CMN

The Night Owls - 37

Thom - WI8W

Jim - KJ0C

Ed - N4XY

Ronnie- KE4VPN

John - K7FD/K7LOW \*

The Terminators - 25

Bill - NT1R

Thaire - W2APF

David - K7EL

Bob - N7XY

Anthony- K8ZT

.please let me know of any corrections I need to apply...thank  
you...72 - Bruce(VE5RC+VE5QRP)

-----  
Date: Mon, 22 Jan 2001 09:31:30 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: harris\_k@crane.navy.mil  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [89259] Re: Help  
Message-ID: <3A6C4442.3E5DF1E1@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Guys,

Let's give these Ukrainian hams the benefit of the doubt. Yes, I agree they may be scarring us. But on the other hand if the DXexpedition is real, we should also understand the high cost of doing these things over there. While hams here may think what's the big deal, just jump in your car and drive to where you can throw up a wire in a tree, they should recognize that first, cars are not plentiful, and second, there may be lots of permits required to put that wire up in a tree. It really is a different world over there! Let's see what develops. If they are truly certain that the DXexpedition will go, they will start to be seen on other DX lists. Then make your decision!

-----  
Date: Mon, 22 Jan 2001 06:47:53 -0800  
From: Stephen Hawkins <grayline@mindspring.com>  
To: qrp-1@Lehigh.EDU  
Subject: [89260] Re: ARRL Handbook and B&N  
Message-ID: <4.2.2.20010122064614.00a2d100@mail.mindspring.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

QRP,

I found out that if you go to a B and N and they are out of the book there is still hope. The one in Modesto Ca. called around to other B&N until they found one they ordered it over the phone for me using my credit card. \$8.00 + 3.95 to mail it to my house. Still Cheap.

Steve

Stephen Hawkins WV6U  
grayline@mindspring.com  
73 49 111 0100 1001

-----  
Date: Mon, 22 Jan 2001 09:51:50 -0500  
From: "Don Wilhelm" <w3fpr@arrl.net>  
To: <aweiss@usd.edu>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89261] Re: about tuner losses -- "can't be true"  
Message-ID: <007c01c08483\$f4293f60\$d9440f3f@dbw11main>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Gang,

How many folks on this list are using a "T" match antenna tuner and a balun for just one or two bands?

If you are in that category, there are alternatives in the form of a link coupled tuner that are not as prone to producing excessive loss because of a tuning combination that produces a match but also produces a high loss. I am thinking of a link coupled antenna tuner with a resonant output side. For a single band it is very easy to build and use, and for two bands is also reasonable.

I don't see much information on link coupled tuners in the ARRL Handbook or

other literature anymore, but there has been frequent reference to their efficiency and matching range as in "The Johnson Matchbox ..." type statements.

Maybe it is time to dust off some of the old designs to see if they can be applied to our modern day situations. There are alternatives other than simply accepting a tuner design that can produce high losses at some tuning combinations - all in the name of 'easy to bandswitch'

73,

Don Wilhelm -Chapel Hill, NC W3FPR home page:

<http://www.w3fpr.webprovider.com>

QRP-L # 485 K2 SN 0020 [mailto: w3fpr@arrl.net](mailto:w3fpr@arrl.net)

----- Original Message -----

From: "Adrian Weiss" <[aweiss@usd.edu](mailto:aweiss@usd.edu)>

To: "Low Power Amateur Radio Discussion" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>

Sent: Monday, January 22, 2001 3:06 AM

Subject: Re: about tuner losses -- "can't be true"

> Hi gang:

>

> The tuner losses thread is another example of a problem that frequently  
> occurs here.

>

> On the one hand, Dave W9VES provided a very lucid explanation of the  
> quantitative meaning of tuner loss, i.e., 0.5dB, which doesn't sound like  
> much, translates into a 11% power absorption by the resistive components  
> in a tuner. Dave referenced Frank Witt's articles in QST, and provided the  
> links to .pdf copies of them. As Witt pointed out, and as everyone has  
known

>

-----  
Date: Mon, 22 Jan 2001 07:05:06 -0800 (PST)

From: Dave Millican <[kg4jqv@yahoo.com](mailto:kg4jqv@yahoo.com)>

To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)

Subject: [89262] Manual for Conar 255 Scope? and info on Conar?

Message-ID: <20010122150506.96531.qmail@web9807.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Folks,

I'm looking for a copy of the manual for a Conar 255 oscilloscope. If anyone has one, I would gladly pay copying costs and postage.

BTW, I haven't been able to find much info on the web about Conar, except that it grew out of National Radio Institute's training business and sold radio and test equipment kits in the 60's. Does anyone know what happened to them?

Thanks,  
Dave KG4JQV  
kg4jqv@yahoo.com

---

Do You Yahoo!?  
Yahoo! Auctions - Buy the things you want at great prices.  
<http://auctions.yahoo.com/>

---

Date: Mon, 22 Jan 2001 10:03:04 -0500  
From: Bill Coleman <aa4lr@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [89263] Re: Barnes/ARRL Handbook  
Message-ID: <1010022100302.KAA10455@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

On 1/19/01 2:25, Lee Bahr at w5drc@earthlink.net wrote:

>I've got a 1948 ARRL Handbook I bought new for \$2.00 in 1948. Do you  
>think it's time to buy a new one, or are things pretty much the same in  
>the new ones?

A Handbook is something you buy about every 8-10 years.

Hmm. My latest is a 1991. I should plan a trip to B & N....

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

---

Date: Mon, 22 Jan 2001 10:15:20 -0500

From: Bill Coleman <aa4lr@arrl.net>  
To: "QRP" <qrp-l@Lehigh.EDU>, <utahfolk@xmission.com>  
Subject: [89264] Anyone need Utah?  
Message-ID: <1010022101518.KAA11820@gate.iterated.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"

To anyone who needs Utah, the following message comes from Dave Fisher,  
NC7W / W7FB:

"to any QRP op who needs UTAH, egram me at <mailto:utahfolk@xmission.com>  
and I will be happy to set up a sked with them (CW only of course)  
... de Dave NC7W / Brigham, UT"

Dave is an absolutely fabulous CW operator. I remember him doing Field  
Day with the Atlanta Radio Club, working CW while holding a conversation.

Dave reads the QRP-L list on the web, but does not subscribe due to the  
volume.

Anyone need Utah, please take Dave up on his offer.

Bill Coleman, AA4LR, PP-ASEL                      Mail: aa4lr@arrl.net  
Quote: "Not within a thousand years will man ever fly!"  
      -- Wilbur Wright, 1901

-----  
Date: Mon, 22 Jan 2001 09:30:22 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-l@LeHigh.EDU>  
Subject: [89265] FOX - Team Results -  
Message-ID: <Pine.LNX.3.95.1010122092218.24380A-1000000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

In memory of Joel, K1QM(SK) -

...Hunt #27 - N9AW -

The Raiders of the Lost RF - 57	The Big Dawgs - 126
Mary - NA6E	ET - N1FN ★

Fred - VE3FAL  
Rob - VE6JAZ  
Earl - VA6RF \*  
Bruce- VE5RC \*

Tom - N5TW \*  
Larry- N2WW \* Clean Sweep  
Bill - K0MP \*  
Bob - N6WG \*

The ScQRPions - 107  
Floyd - NQ7X \*  
Brian - K7RE \*  
Conard- WS4S  
Chuck - K7Q0  
Bob - NK7M \*

The Flying Pigs #1 - 34  
Diz - W8DIZ  
Rick - WB6JBM  
Dan - N8IE  
Brian- KB9BVN  
Dave - WR50

The Cheeseheads - 116  
Brian - AE9K \*  
Jerry - N9AW \*  
Rick - NK9G \* Clean Sweep  
Lou - W9XU \*  
Jim - WA9TZE \*

The Houston Hounds - 117  
Bill - K5ZTY \*  
Bill - W5SB \*  
Terry- KQ5U \* Clean Sweep  
Dan - KK5LD \*  
Danny- WA50JE \*

The New England Hunt Club - 41  
Joel - K1QM(SK)  
John - K1JD  
Jim - KC1FB \*  
Aron - N10DL  
John - KB1ENS  
Seab - AA1MY

The Swamp Rats - 87  
Paul - K4FB \*  
Jack - K4BYF \*  
Pete - NV4V  
Fred - W2XN \*  
Tom - N1TP \*

The Buffalo Wings - 34  
Mark - K2Q0  
Dave - AA2PF  
Howard- K2UD  
Bob - K2VNM  
Scott - AC3A

The Bayou City Brass Pounders - 120  
Ed - K5VUU \*  
Bob - N5ET \*  
Henry - W5HNS \*  
OJ - K10J  
Bruce - N1LN \*

The Flying Pigs#2 - 13  
Andy - N8MX  
Kent - KB9VZS  
Ron - N8VAR  
Kenn - KM7KEN  
Andrew - AC7CF

The Fox Terrors - 113  
Tim - K5OI \*  
Don - K5AAR \*  
Karl - K5DI \*  
Dave - W0CH \*  
Doc - K0EVZ

The Cajun Thunder - 68  
Joel - KE1LA  
John - K5JS  
Wayne - K5E0A \*  
Jim - N5IB \*

The Underdogs - 81  
Dan - N4ROA \*  
Roy - AB7CE  
Art - KB7WW \*  
Glenn - WA7SPY

Tom - AC5JH \*

Ron - KI0II \*

The VA Hams + OLW - 6

The NE-TX Tornados - 96

Mike - KT4FJ

Bill - K5JHP \*

Doug - W4IDW

Chuck - W5USJ \*

Skip - K0YWD \*

Don - K5DW \*

John - W4IM

George- W5YR \*

Paul - W2RIA

Rich - N5JI

The Minnesota North Stars - 101

The Cockroaches - 4

Mert - W0UFO

Gary - KM5TY

Scott- N0AR

Dave - N0IT

Craig- AA0ZZ

Rich - K7SZ

Jim - N0UR

Tom - WA1VAI/3

Pat - K0PC

Mike - KD5CMN

The Night Owls - 38

The Terminators - 26

Thom - WI8W

Bill - NT1R

Jim - KJ0C

Thaire - W2APF

Ed - N4XY

David - K7EL \*

Ronnie- KE4VPN

Bob - N7XY

John - K7FD/K7LOW \*

Anthony- K8ZT

.please let me know of any corrections I need to apply...thank  
you...72 - Bruce(VE5RC+VE5QRP)

...ps...the "\*" beside each call means that station bagged a pelt in the  
hunt.



-----  
Date: Mon, 22 Jan 2001 10:03:03 -0500  
From: ed.kwik@delphiauto.com  
To: qrp-1@Lehigh.EDU  
Subject: [89266] MI QRP Net  
Message-ID: <052569DC.00530326.00@usabhmg99.mail.delphiauto.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

I could only manage a few hours on Saturday in the MI QRP contest last weekend.  
Just way too many other things going on.

The Michigan QRP net meets each Tuesday night at 9:00 PM Eastern time on 3.535  
MHz. The 80 meter band has been nice the last couple of weeks any one report I  
read said that it should continue for the rest of the week.

Ed AB8DF

-----  
Date: Mon, 22 Jan 2001 11:05:50 -0500  
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>

To: <aa4lr@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89267] Re: Barnes/ARRL Handbook  
Message-ID: <010901c0848d\$3153bb00\$3003b3d8@obvious>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

My first Handbook was purchased in 1965, my first year in Amateur Radio, for FOUR dollars. I have purchased several other editions over the years.

A few years ago, I thought it would be nice to have a Handbook to mark each decade that I have been licensed. I had previously purchased the 1985 edition, then I went to E-Bay to purchase the 1975 and 1995 editions, for TWO dollars each.

I decided to "splurge" for the year 2000, so I bought that edition in both softcover and CD-ROM.

As I look at things, a new Handbook every five years should do it for me.

73,  
Dick K2JQ

-----  
Date: Mon, 22 Jan 2001 10:26:42 -0600  
From: "Jerry Bartachek" <Jerry.Bartachek@dnr.state.ia.us>  
To: <qrp-1@Lehigh.EDU>  
Subject: [89268] OT: Need To Find FISTS Stations in South Dakota  
Message-ID: <sa6c0aea.021@idnr4.dnr.state.ia.us>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable  
Content-Disposition: inline

Sorry for the OT, but maybe my QRP friends here can help me. I desperately= need a QSO with a SD station who is a member of FISTS CQ Club. I can't find = anyone on the FISTS lists with e-mail so I can set up a sked.

Do you have a friend in SD who is a FISTS member?

Please tell him my e-mail address and/or tell ME where when and where he = operates.

I'm in Washington, Iowa, so 80 or 40 are the best bands.

72,

Jerry KD0CA  
QRP-L #544  
QRP ARCI #5166  
FISTS #7064  
jerry.bartachek@dnr.state.ia.us

-----  
Date: Mon, 22 Jan 2001 11:52:02 -0500  
From: hattonte@gdls.com  
To: qrp-l@Lehigh.EDU  
Subject: [89269] Best source: copper clad board  
Message-ID: <0F765B0DB5.B491FFA8-0N852569DC.005C2EEB@gdls.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

Went to a local swap here in Detroit (Hazel Park) where there were two tables selling offcut pieces of double sided Copper clad board. The going price seems to be about a dollar a square foot. Which beats the Shack by a factor of around ten!

Terry  
Oink oink

-----  
Date: Mon, 22 Jan 2001 10:52:37 -0600  
From: Bcieslak@ra.rockwell.com  
To: qrp-l@Lehigh.EDU  
Subject: [89270] QQ  
Message-ID: <0F9B49729D.2308CD98-0N862569DC.005C05F5@ra.rockwell.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

I was home, sick with the deadly scourge that is running through the midwest this season. When I opened my mailbox and found the QQ in there it made my day. All I can say is WOW!!!. The Editor has certainly set the bar high with this issue. Full Color Covers. Good Articles (especially the AT articles since I will be there next fall during the Rocket Boys festival), Some good awards articles and milliwatt articles. It certainly was a joy to read, especially after being cooped up all day

feeling sorry for myself. I was so inspired I dragged myself over to the radio and made a few Q's.

Brian AE9k

-----  
Date: Mon, 22 Jan 2001 17:00:08  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [89271] Re: email address for WWV/WWVH survey request  
Message-ID: <F302AMfKQu1bCdUg07M00004801@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Karl F. Larsen (k5di@zianet.com) wrote about the WWV/NIST web page:

>You need a name and password to get on that web page.  
>I have neither. They don't want my vote.

You might want to check again - the given URL was  
<<http://www.boulder.nist.gov/timefreq/stations/wwwv.html>>  
and it worked fine for me.

I have sent reception reports not only to WWV, but also to some of the lesser-known time signal stations - my fave is VNG in Australia. You sometimes hear VNG's time pips in the background of WWV and WWVH on 5000 kHz just before dawn (west coast North America), and it's weak but usually clear on 8638 kHz at the same time (unless it's getting clobbered by HLW, a Korean ship-to-shore station). I used to have a recording of it on my web page. BPM and JJY are (were?) fairly common here.

Many of these services are being cut back. Reception reports help their sponsors know that people are using them. You usually get nice QSL cards too - WWVH have particularly nice ones.

I'm curious: what do people use these stations for? Email me offline and I'll tabulate and present the results.

Some options:

- propagation beacon
- time standard

- frequency standard
- sunspot numbers
- GPS info
- other things?

Laura Halliday VE7LDH        "Que les nuages soient notre  
 Grid: CN89mg                    pied a terre..."  
 ICBM: 49 15.042 N 122 59.053 W        - Hospital/Shafte

---

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

-----

Date: Mon, 22 Jan 2001 09:53:55 -0700  
 From: "Mugleston, Brad" <brad.mugleston@gwl.com>  
 To: qrp-l <qrp-l@lehigh.edu>  
 Subject: [89272] QRPp question  
 Message-ID: <F9645092A142D3118CBD00805F15292E10D98D3F@eb-mail1.gwl.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain

QRPp Spring & Fall 2000 issues Building the Saint Louis Coil - nice  
 articles and nice pictorial follow up BUT what is a caterpillar grommet  
 strip used for (other than for antenna coils) and where does one pick some  
 up?

-----

Date: Mon, 22 Jan 2001 12:12:19 +0000  
 From: "Ronald A. Pfeiffer" <Ronald\_A\_Pfeiffer@res.raytheon.com>  
 To: qrp-l@Lehigh.EDU  
 Subject: [89273] FS QRP stuff  
 Message-ID: <3A6C23A3.8CD44FA4@res.raytheon.com>  
 MIME-Version: 1.0  
 Content-Type: text/plain; charset=us-ascii  
 Content-Transfer-Encoding: 7bit

Price include shipping CONUS:

1. \$ 95        LDG-QRP tuner built in LDG enclosure( using with K2)
2. \$120       Radio Shack HTX-10 like new in box
3. \$40        KE6RIE Straight Key
4. \$225       IC R10 .5khz - 2 Ghz receiver/scanner like new in box
5. \$30        NORCAL BLT unbuilt
6. \$110       NORCAL EPIPHYTE III unbuilt
7. \$55        MS-15 unbuilt Steve Weber 15M , 5W , CW kit

8. \$25        KANGA KIT - Super Tee tuner unbuilt

Any questions please email me.

Ron - N1ZSW

-----  
Date: Mon, 22 Jan 2001 09:14:38 -0800  
From: peter murphy <pete@c-zone.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89274] fs: LDG QRP autotuner  
Message-ID: <3.0.6.32.20010122091438.007bfa70@mail.c-zone.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

tunes 6-800 ohms, .1 to 10W, 12v@190ma, with enclosure, manual, exc condx.  
\$75 shipped in conus.

Pete W6WY nr Redding CA

-----  
Date: Mon, 22 Jan 2001 12:15:02 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: hattonte@gdls.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [89275] Re: Best source: copper clad board  
Message-ID: <3A6C6A96.F229871F@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Terry,

I think we went through this one a few months ago. First off  
'Electronic Goldmine' sells copper clad board for a few cents in random  
cut sizes and for a few cents more in large sheets. You can find them  
on the web. Second, a list member in Ohio, I think, volunteered to sell  
cut off pieces from his employer's work, with his employer's blessing,  
for postage. I am sure any of theses deals beats Radio Shack's prices.  
They have a higher overhead. But, don't forget, on Sunday afternoon,  
when the rest of the world is closed, they are there to sell you that  
damned resistor!

-----  
Date: Mon, 22 Jan 2001 11:15:21 -0500  
From: ed.kwik@delphiauto.com  
To: qrp-1@Lehigh.EDU  
Subject: [89276] End Feed Half Wave  
Message-ID: <052569DC.0059CDD5.00@usabhmg99.mail.delphiauto.com>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

Has any one tried to end feed a half wave vertical using a 1/4 wave length section of window line as shown at:

<http://www.qsl.net/oe3mzc/hlfewve.htm>

This looks like it would be an easy way to match the high impedance with out the need of the more conventional tuned circuit. I would like to try a 1/2 wave vertical to augment my dipole on 30 meters.

Ed AB8DF

-----  
Date: Mon, 22 Jan 2001 12:54:00 -0500 (GMT+5)  
From: <wd9eyb@butler.qrp.com>  
To: qrp-1@lehigh.edu  
Cc: wvara@butler.qrp.com  
Subject: [89277] Clunkier Klunky Schematic Draw Web Page  
Message-ID: <Pine.LNX.3.95.1010122123544.6182A-1000000@butler.qrp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I'm working on an even clunkier klunky schematic drawing web page.  
Here's a list of new features:

- The symbols and drawing area are in two speparate frames.

- The drawing area is bigger.

- The 4th row of symbols changes when you click on a key word.

- You can slide you schematic left, right, up and down.

- I tried to make a display function for easier capture but it has errors.

- You can go to a utilities page which provides the following:

You can save and recall your schematic to a cookie.  
You can generate HTML for your schematic, which you can select, copy and save.  
You can link it to other schematics on the web or on your machine that you have generated with the generate function.

Here's the URL. <http://butler.qrp.com/~wd9eyb/klunky>  
The original program is at <http://butler.qrp.com/~wd9eyb/drawsch>  
Mel, GM6JAG, has a version at <http://www.euramcom.freeseerve.co.uk/klunky/>

I have given up on trying to make it work with older versions of Netscape.  
It works with Netscape 6.

If you wish to extend the program or fix bugs please do so and let us know about your progress. I consider this program to be in the public domain.

It's getting so clunky that's it's going to need a users manual.  
I hope to write one soon.

One huge disadvantage to it is you have to copy your schematic to another paint or drawing program to annotate it. If you can think of a clever way of doing annotation in the program let us know.

The web page is in a state of flux.  
Don't be surprised to see big changes.

Thanks,

Jim, WD9EYB  
[wd9eyb@arrl.net](mailto:wd9eyb@arrl.net)

-----  
Date: Mon, 22 Jan 2001 11:54:50 -0600  
From: "Kanalz, Karl" <[Karl.Kanalz@allegiancetelecom.com](mailto:Karl.Kanalz@allegiancetelecom.com)>  
To: "'[kc4atu@yahoo.com](mailto:kc4atu@yahoo.com)'" <[kc4atu@yahoo.com](mailto:kc4atu@yahoo.com)>, Low Power Amateur Radio Discussion  
<[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [89278] RE: Corrosion/Stranded Wire  
Message-ID:  
<[E78D8A9D6762D411B5440008C791D4AA01303350@dfwex03.allegiancetelecom.com](mailto:E78D8A9D6762D411B5440008C791D4AA01303350@dfwex03.allegiancetelecom.com)>  
MIME-Version: 1.0  
Content-Type: text/plain

I disagree, Bill, that "insulated wire" lacks corrosion. Unless you



live in the depths of the Sahara Desert, where rainfall and humidity are extremely low, you'll find that insulated copper wire will "wick" moisture into the space between the copper conductors and the insulating jacket. In a very short amount of time, you'll find the conductors inside the jacket to be just as corroded as an UN-insulated wire.

If the conductors inside the insulation jacket are TINNED, however, the rate of corrosion is greatly slowed (compared to a bare copper stranded wire), but those wires are much more expensive to acquire (compared to un-tinned, jacketed copper wire).

Karl K - W8TIF  
McKinney, Texas

> -----Original Message-----

> From: Bill ROWLETT [SMTP:kc4atu@yahoo.com]

> Sent: Thursday, January 18, 2001 6:52 PM

> To: Low Power Amateur Radio Discussion

> Subject: Corrosion/Stranded Wire

>

> Ok, in all of this discussion, the main problem I have  
> with stranded wire, be it copper or steel or alum., is  
> not the losses but rather the fact that you are using  
> a bare wire. Use of insulated wire has two things  
> going for it. The first is the lack of corrosion and  
> the second, which I feel is more important, is the  
> lack of static caused by the movement of the wire when  
> the wind blows. Those of you using bare stranded wire,  
> take notice the next windy day, more static. May not  
> be a great amount, but it is there.

>

> Also, the smaller size wire with black insulation will  
> disappear against the sky for all practical purposes.

>

> Just another thought on a subject with many directions  
> in which to go.

>

> Put up what you can as high as you can and have a  
> ball.

>

> 73 Bill

-----

Date: Mon, 22 Jan 2001 13:42:51 +0000

From: "Steven Weber" <kd1jv@moose.ncia.net>

To: qrp-1@lehigh.edu

Subject: [89279] Re: Multi band inverted vee advice  
Message-ID: <200101221816.NAA00723@wolf.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

I think a fan-dipole antenna is only practical if you can support it with a mast and there is enough open ground around it to properly space the elements, or if your tree doesn't have any branches for the first 30-40 feet.

I have a fan dipole for 40, 20 and 17 on the roof of my shop. I call it my spider web :-). A 5 ft PVC pipe in the center of the roof is the mast and the wires run off to diagonal corners (40,20) and to the ends of the roof peak (17). The 40 meter elements run past the corners of the roof, and in one case is attached to a fence behind the building and in the other, zigs back along the eave. Works reasonably well, considering the apex is only 25 ft or so high.

72,  
Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----  
Date: Mon, 22 Jan 2001 12:31:43 -0600  
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>  
To: qrp-l@lehigh.edu  
Subject: [89280] end fed half wave info?  
Message-ID: <GNAENAHFGEJFBAAA@shared1-mail.whowhere.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Language: en  
Content-Transfer-Encoding: 7bit

All,

If anyone has information on an end fed half wave fed against a quarter wave counterpoise, I'd appreciate you sending it one to me. I recall seeing some discussion of this and I think that there was a simple tuning scheme that was described.

Thanks,  
Joel NF9K

---  
Joel Kluender, NF9K  
870 Prairie Street S.  
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at  
<http://www.eudoramail.com>

-----  
Date: Mon, 22 Jan 2001 13:35:43 +0000  
From: "Ronald A. Pfeiffer" <Ronald\_A\_Pfeiffer@res.raytheon.com>  
To: qrp-l@Lehigh.EDU  
Subject: [89281] FS QRP stuff UPDATE  
Message-ID: <3A6C372F.AEEAE80A@res.raytheon.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

1. \$ 95        LDG-QRP tuner built in LDG enclosure( using with K2)
2. \$120       Radio Shack HTX-10 like new in box
3. \$40        KE6RIE Straight Key
  
- SOLD        4. \$225       IC R10 .5khz - 2 Ghz receiver/scanner like new in  
box
- SOLD        5. \$30        NORCAL BLT unbuilt
- SOLD        6. \$110       NORCAL EPIPHYTE III unbuilt
  
7. \$55        MS-15    unbuilt Steve Weber   15M , 5W , CW kit
  
- SOLD        8. \$25        KANGA KIT - Super Tee tuner unbuilt

Ron - N1ZSW

-----  
Date: Sun, 21 Jan 2001 23:27:37 -0700  
From: "Ron, KU7Y" <ku7y@qsl.net>  
To: QRP-L <qrp-l@Lehigh.EDU>  
Subject: [89282] Re: about tuner losses  
Message-ID: <001501c084a0\$81239340\$63c6a9d8@com>  
MIME-version: 1.0  
Content-type: text/plain; charset="iso-8859-1"  
Content-transfer-encoding: 7bit

Hi All,

I'd like to point out something before too many people get scared away from using a tuner and having fun.....

We have long heard about how well QRP and QRPp works and we not only believe it but use it actively.

Now lets look at that example of putting 1 watt into a tuner and "only" getting 0.89 watts out.

I'll not argue at all about the truth or fallacy of the statement but will rather just state that there is no one who could tell the difference in your signal between those two levels. The only way you could tell is to measure it. If that is really 0.5 dB then it is less then 1/10 of 1 S unit.

Should you be happy about loosing 11% of your power??? Heck no! But while you work on getting a "better" antenna/feed line system up, just be sure you get on the air and have fun.

Don't ever let the pure science of radio get in the way of having fun. Do your best to learn all you can (or at least all you want).

But don't run out and take down the only antenna you have just because you MIGHT be loosing some RF someplace!

Remember the basics::::::::::

- 1) Any antenna is better than none.
- 2) Always be trying to make your antennas better.
- 3) You can never have enough antennas.
- 4) If they survived the last storm, they either were not big enough or high enough!

OK, back in my hole.....

cul, Ron KU7Y  
Full time RVing somewhere in the West!  
(Currently near Quartzsite, AZ)  
A Proud AZScQRPion  
\*\*\*Colt: The original point and click interface\*\*\*

-----

Date: Mon, 22 Jan 2001 11:46:32 -0700

From: "Mugleston, Brad" <brad.mugleston@gwl.com>  
To: Bruce Muscolino <w6toy@erols.com>  
Cc: qrp-1 <qrp-1@lehigh.edu>  
Subject: [89283] RE: QRPp question  
Message-ID: <F9645092A142D3118CBD00805F15292E10D98D6A@eb-mail1.gwl.com>  
MIME-Version: 1.0  
Content-Type: text/plain

Thank you. I'll have to look at a catalog.

> -----Original Message-----  
> From: Bruce Muscolino [SMTP:w6toy@erols.com]  
> Sent: Monday, January 22, 2001 10:42 AM  
> To: brad.mugleston@gwl.com  
> Subject: Re: QRPp question  
>  
> Brad,  
>  
> They are used to grommet large chassis holes. You can get them at  
> Mouser or Digi-Key. Look under chassis accessories.  
>  
> 73

-----  
Date: Mon, 22 Jan 2001 13:58:00 -0500  
From: "Larry Spinner" <n2icz@hotmail.com>  
To: <nf9k@eudoramail.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [89284] Re: end fed half wave info?  
Message-ID: <0E69mmlQ080Gxw8Zw5V0000280a@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Joel,

I saw this on the memorial G3YCC page and think it's close to what you're looking for. Looks interesting:

<http://k3hrn.freeshell.org/g3ycc/w3edp.htm>

73,

Larry-N2ICZ

----- Original Message -----  
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, January 22, 2001 1:31 PM  
Subject: end fed half wave info?

> All,  
>  
> If anyone has information on an end fed half wave fed against a quarter  
wave counterpoise, I'd appreciate you sending it one to me. I recall seeing  
some discussion of this and I think that there was a simple tuning scheme  
that was described.  
>  
> Thanks,  
> Joel NF9K  
> ---  
> Joel Kluender, NF9K  
> 870 Prairie Street S.  
> Shakopee, MN 55379  
>  
> Great is the Lord, and worthy of praise!  
>  
>  
>  
> Join 18 million Eudora users by signing up for a free Eudora Web-Mail  
account at <http://www.eudoramail.com>  
>

-----  
Date: Mon, 22 Jan 2001 10:54:04 -0800  
From: Bill Jones <kd7s@psnw.com>  
To: nf9k@eudoramail.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [89285] Re: end fed half wave info?  
Message-ID: <3A6C81CC.6EA953E1@psnw.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Joel et al

Check out the Adventure Radio Society's archives. Specifically, read  
about my "film can transmatch" at  
[http://www.natworld.com/ars/pages/back\\_issues/2000\\_text/0100\\_text/film.html](http://www.natworld.com/ars/pages/back_issues/2000_text/0100_text/film.html)

"Joel Kluender, NF9K" wrote:

>  
> All,  
>

> If anyone has information on an end fed half wave fed against a quarter wave counterpoise, I'd appreciate you sending it one to me. I recall seeing some discussion of this and I think that there was a simple tuning scheme that was described.

>

--

-----  
Bill Jones - KD7S <><  
Sanger, California  
<http://www.psnw.com/~kd7s/>  
-----

-----  
Date: Mon, 22 Jan 2001 14:14:07 -0500 (GMT+5)  
From: <wd9eyb@butler.qrp.com>  
To: qrp-l@lehigh.edu  
Cc: wvara@butler.qrp.com  
Subject: [89286] Klunky VFO  
Message-ID: <Pine.LNX.3.95.1010122140611.10408A-100000@butler.qrp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Here's a VFO schematic I drew with klunky schematic drawing web page.  
<http://butler.qrp.com/~wd9eyb/klunky/vfo.html>  
It took me about 10 minutes to enter this from the 2001 ARRL Handbook.  
Page 17.74, figure 17.78.  
It's not exact because I don't yet have symbols for feedthrough capacitors and ferrite beads.

The VFO web page is in klunky schematic drawing format so you can link it into the klunky schematic drawing web page and edit it.  
<http://butler.qrp.com/~wd9eyb/klunky>  
Click on utilities, paste the URL in the box, click on follow link, then click on follow the link on the bottom half.  
Play with the schematic and have fun.

Jim, WD9EYB

-----  
Date: Mon, 22 Jan 2001 13:21:32 -0600  
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [89287] Re: email address for WWV/WWVH survey request  
Message-ID: <3A6C883C.C4D71376@arrl.net>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just send a message to nist.radio@boulder.nist.gov  
telling them you'd like to receive a survey when it's sent out  
and giving them your USMail address.

I received a form response saying the survey would go out  
"in the summer" and thanking me for my interest.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>  
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg  
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

-----  
Date: Mon, 22 Jan 2001 14:48:44 EST  
From: RangerSF5@aol.com  
To: qrp-l@lehigh.edu, antennas@qth.net  
Subject: [89288] What tuner manual says  
Message-ID: <be.ef748fb.279de89c@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Gang,  
Looks like my question led to coax,tuners/baluns/losses and more.  
OK,  
>From the Yaesu owner manual it says.  
It should be noted that matching from the shack with the FC 901 will have no  
affect on losses due to SWR on the coax line between the tuner and the  
antenna.  
The operator should consult one of the popular antenna hand books to  
determine whether or not matching between the coax line and the antenna must  
be performed AT THE ANTENNA  
So this is telling me that the antenna can be ANYTHING as long as the tuner  
can provide the 50 ohms to make the transmitter happy.  
Bob  
WA2HOQrp <tm>

-----  
Date: Mon, 22 Jan 2001 15:18:55 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: RangerSF5@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [89289] Re: What tuner manual says



Message-ID: <3A6C95AF.BE181AFD@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bob.

The Yaesu book is absolutely correct. The tuner, situated between the rig and the coax (or open wire feeders) will have no effect on the antenna feedpoint. Never has, probably never will! You have a long hunk of wire there as a feeder, with its own characteristic impedance, and an antenna with its own impedance requirements. It is up to you to tune the feedpoint impedance if necessary. Look at beams and their matching networks.

73

-----  
Date: Mon, 22 Jan 2001 15:36:56 -0500 (GMT+5)  
From: <wd9eyb@butler.qrp.com>  
To: Brian <brian@iquest.net>  
Cc: qrp-1@lehigh.edu, wvara@butler.qrp.com  
Subject: [89290] Re: Klunky VFO  
Message-ID: <Pine.LNX.3.95.1010122153548.13873A-1000000@butler.qrp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Oops. It's trying to look at files on my machine.  
That won't work. I'll work on a fix.

Jim, WD9EYB

On Mon, 22 Jan 2001, Brian wrote:

> All I get is a 15 by 21 grid with nothing but red x's in it.  
>  
> Am I doing something wrong?  
>  
> 73  
>  
> ----- Original Message -----  
> From: <wd9eyb@butler.qrp.com>  
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
> Sent: Monday, January 22, 2001 2:14 PM  
> Subject: Klunky VFO  
>

>  
> > Here's a VFO schematic I drew with klunky schematic drawing web page.  
> > <http://butler.qrp.com/~wd9eyb/klunky/vfo.html>  
> > It took me about 10 minutes to enter this from the 2001 ARRL Handbook.  
> > Page 17.74, figure 17.78.  
> > It's not exact because I don't yet have symbols for feedthrough  
> > capacitors and ferrite beads.  
> >  
> > The VFO web page is in klunky schematic drawing format so you can  
> > link it into the klunky schematic drawing web page and edit it.  
> > <http://butler.qrp.com/~wd9eyb/klunky>  
> > Click on utilities, paste the URL in the box, click on follow link,  
> > then click on follow the link on the bottom half.  
> > Play with the schematic and have fun.  
> >  
> > Jim, WD9EYB  
> >  
> >  
> >  
> >  
>

-----  
Date: Mon, 22 Jan 2001 15:53:08 -0500 (GMT+5)  
From: <wd9eyb@butler.qrp.com>  
To: Brian <brian@iquiest.net>  
Cc: qrp-1@lehigh.edu, wvara@butler.qrp.com  
Subject: [89291] Re: Klunky VFO  
Message-ID: <Pine.LNX.3.95.1010122155142.15368B-1000000@butler.qrp.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Ok Brian, I think I've got that fixed.  
Try it again.  
<http://butler.qrp.com/~wd9eyb/klunky/vfo.html> for the VFO.  
<http://butler.qrp.com/~wd9eyb/klunky/> for the drawing web page.

Jim, WD9EYB

On Mon, 22 Jan 2001, Brian wrote:

> All I get is a 15 by 21 grid with nothing but red x's in it.  
>  
> Am I doing something wrong?  
>  
> 73

>  
> ----- Original Message -----  
> From: <wd9eyb@butler.qrp.com>  
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
> Sent: Monday, January 22, 2001 2:14 PM  
> Subject: Klunky VFO  
>  
>  
> > Here's a VFO schematic I drew with klunky schematic drawing web page.  
> > <http://butler.qrp.com/~wd9eyb/klunky/vfo.html>  
> > It took me about 10 minutes to enter this from the 2001 ARRL Handbook.  
> > Page 17.74, figure 17.78.  
> > It's not exact because I don't yet have symbols for feedthrough  
> > capacitors and ferrite beads.  
> >  
> > The VFO web page is in klunky schematic drawing format so you can  
> > link it into the klunky schematic drawing web page and edit it.  
> > <http://butler.qrp.com/~wd9eyb/klunky>  
> > Click on utilities, paste the URL in the box, click on follow link,  
> > then click on follow the link on the bottom half.  
> > Play with the schematic and have fun.  
> >  
> > Jim, WD9EYB  
> >  
> >  
> >  
>

-----  
Date: Mon, 22 Jan 2001 15:53:41 EST  
From: K4YBB@aol.com  
To: qrp-l@lehigh.edu  
Subject: [89292] Dumb Aerial Question  
Message-ID: <7d.fea8104.279df7d5@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

QRP-L inc.

I have acquired a "G5RV" antenna without any paper work. My question:  
Can I use this antenna for 80 and 40 meters without a tuner or is a tuner  
absolutely necessary? I know, DUMB question, but I don't want to smoke this  
solid state rig cause them squiggly little critters in there cost lots of  
dollars.

Info appreciated. Thank you.

Jim K4YBB

-----  
Date: Mon, 22 Jan 2001 15:01:21 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: RangerSF5@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [89293] Re: What tuner manual says  
Message-ID: <3A6C9FA1.37A05C33@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Well, Bob, not ANYTHING . . .

Any tuner has a particular range of complex impedances that it can transform to 50 ohms resistive. Any given antenna at a given frequency for a given feedline of given length will present a given impedance at the sending end of the line. Sadly, most tuner "manuals" say little about this since the manufacturer probably (a) doesn't really know himself; (b) figures the average ham doesn't know or care anyway; and/or (c) most folks have no way of really knowing what their antenna system looks like to the tuner at the sending end of the line. Fortunately (c) is becoming less and less the case with the advent of decent "antenna analyzers" which are really impedance bridges.

If that impedance is within the range of the tuner, then the transmitter gets its 50 ohm resistive load that "makes it happy." That is, it is able to deliver all the power that it is designed to without overheating, generating excessive distortion, etc.

If that impedance is outside the range of the tuner, then no amount of juggling tuner controls will do the job. If the impedance is on the raw edge of being within the tunable range, then a "match" might could be made, but the L and C values might be far from the best, so that losses increase in the tuner. I suspect that a lot of anecdotal tales about tuner losses come from this marginal situation.

If this is the case, then either or both of two things can be done to correct the problem: (1) change the match between line and antenna AT THE ANTENNA so that the line is looking more nearly at its characteristic impedance or  $Z_0$ ; or (2) change the length of the feedline so that the impedance at the sending end changes to a more acceptable value (a mismatched line acts as an impedance transformer whose

transformation depends on load impedance,  $Z_o$ , frequency and length). A possible third option is to change the antenna length or location or any of a dozen other things to change its input impedance that the line sees.

These steps will usually bring the line input impedance into a range that most tuners can handle reasonably well.

My experience with tuners over the years with a wide variety of antenna systems is that a properly adjusted tuner made with adequate components will seldom have enough loss to worry over. But, a marginal tuner - usually too small for the power level - or one that is being pushed up against its matching limits can quickly become the better part of a dummy load.

But, here your nose and your hand should quickly allow you to diagnose that you have excessive tuner loss. Let's apply some common sense here: make a guess at how much power you think a tuner might be losing (not "loosing"). Now, imagine a light bulb of that wattage being placed inside the tuner cabinet. Most tuner cabinets are not ventilated. Now, imagine placing your hand on the outside of that cabinet after the bulb has been on for 10 minutes or so and hold it there. Is it hot?

Example: I suspect that my tuner may be wasting 10% of my KW output (JOKE, guys! - no KWs at YR!!) or 100 watts. Wonder what my MFJ 989C would feel like after 10 minutes with a 100-watt bulb running inside it. Does the case ever get that hot in actual usage, say during a 10-minute RTTY transmission? I would doubt it very much . . . never has so far.

None of this stuff is rocket science, guys - and it has all been covered time and again in the ARRL Antenna Book, etc. But, I am pleased to see that we still talk about it on the list since it means that people are thinking about what they are doing, asking questions and trying to learn things. That is all to the good!!

72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

RangerSF5@aol.com wrote:

>

> Hi Gang,

> Looks like my question led to coax, tuners/baluns/losses and more.

> OK,

> > From the Yaesu owner manual it says.

> It should be noted that matching from the shack with the FC 901 will have no

> affect on losses due to SWR on the coax line between the tuner and the  
> antenna.  
> The operator should consult one of the popular antenna hand books to  
> determine weather or not matching between the coax line and the antenna must  
> be performed AT THE ANTENNA  
  
> So this is telling me that the antenna can be ANYTHING as long as the tuner  
> can provide the 50 ohms to make the transmitter happy.

-----  
Date: Mon, 22 Jan 2001 20:28:29 +0000  
From: Euramcom <mel@euramcom.freeseve.co.uk>  
To: <qrp-1@lehigh.edu>  
Cc: <gqrp@egroups.com>  
Subject: [89294] Klunky Schematics!  
Message-ID: <E14KoFX-0005IN-00.2001-01-22-21-11-40@mail3.svr.pol.co.uk>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Hi Gangues,

Jim Osburn has kindly given his permission to let me place Klunky=  
Schematics! on the euramcom website.

I have made a version from Jim's original material with a  
personalised user "inteface". There's some advice on running the=  
program both from the web and on your own machine.

You are welcome to visit and use this great wee circuit drawing  
program which is now within the Public Domain.

Jim is working on an even bigger version as you read this, and=  
I'll  
certainly be looking at incorporating the symbols into the=  
Euramcom  
Klunky pages.

Here's the URL for Jim's newer bigger version:-

<http://butler.qrp.com/~wd9eyb/klunky>

The original program can still be found at:-

<http://butler.qrp.com/~wd9eyb/drawsch>

My personalised GM6JAG, version is at:-

<http://www.euramcom.freeseve.co.uk/klunky/>

Jim deserves thanks for this friendly little drawing program. Try=it!

You'll enjoy it, it really is great fun!

Regards

Mel

--72 and 73 de Mel Evans, e-mail [mel@euramcom.freeseve.co.uk](mailto:mel@euramcom.freeseve.co.uk)

Mel Evans GM6JAG Edinburgh Scotland  
Home of the last HW9

Visit <http://www.euramcom.freeseve.co.uk> for  
US Euro Ham Radio Equivalent Parts and info,  
Add-a-Link page let's you add your own pages instantly

-----  
Date: Mon, 22 Jan 2001 14:15:05 -0700  
From: "Carlos Caro" <cjcaro35@hotmail.com>  
To: w6toy@erols.com, qrp-1@Lehigh.EDU  
Subject: [89295] Re: Help  
Message-ID: <F190R5Kya3pK1dgzpIy00004614@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Roy and all,

If they are legit, why not ask for a buck (or more) per qsl. It's been done before and at least the qso is made before money changes hand.

Carlos #1333

-----

Get your FREE download of MSN Explorer at <http://explorer.msn.com>

-----  
Date: Mon, 22 Jan 2001 13:34:18 -0800  
From: Phil Wheeler <w7ox@earthlink.net>  
To: K4YBB@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89296] Re: Dumb Aerial Question  
Message-ID: <3A6CA75A.52EAA952@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

K4YBB@aol.com wrote:

>  
> QRP-L inc.  
>  
> I have acquired a "G5RV" antenna without any paper work. My question:  
> Can I use this antenna for 80 and 40 meters without a tuner or is a tuner  
> absolutely necessary?

Generally, a G5RV needs a tuner for any band .. though for a particular installation, there may be bands where the VSWR is OK without a tuner.

The feed line attached to the antenna (really, part of the antenna) is 450 ohm open wire line ending in a SO-239 coax connector. You should feed it with some minimum length of 50 ohm coax to use it as a G5RV .. but I've forgotten what that minimum length is.

Phil W7OX

-----  
Date: Mon, 22 Jan 2001 16:45:49 -0500  
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>  
To: <nf9k@eudoramail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [89297] Re: end fed half wave info?  
Message-ID: <009c01c084bc\$b0467720\$3505b3d8@obvious>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Joel,



I have found some very good information on End Fed Half Wave Antennas at:  
<http://www.cebik.com/gup12.html> titled "A Tiger by the Tail or a 135'  
End-Fed Multi-band Dipole Data Compendium." This is on LB Cebik's website.

There is also more good info on Steve Yates' (AA5TB) website. The info  
about EFHWA's is at <http://www.geocities.com/aa5tb/efha.html>

I hope you find these helpful.

73,  
Dick K2JQ

-----  
Date: Mon, 22 Jan 2001 16:41:34 -0500  
From: Bruce Muscolino <w6toy@erols.com>  
To: Carlos Caro <cjcaro35@hotmail.com>  
Cc: qrp-l@lehigh.edu  
Subject: [89298] Re: Help  
Message-ID: <3A6CA90E.E810FBB4@erols.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Carlos,

They probably will! But they first have to get there. Personal income  
is not so great in the Ukraine, or so I have been told!

73

-----  
Date: Mon, 22 Jan 2001 17:05:32 -0500  
From: "Don Wilhelm" <w3fpr@arrl.net>  
To: <w5yr@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [89299] Re: What tuner manual says  
Message-ID: <007201c084bf\$7b81d4a0\$d3440f3f@dbw11main>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

George and all,

The tuner loss is not necessarily a result of a load that is outside the range of the tuner.

For the "T" match tuners, even within the tuner's range of loads, there can be any number of setting combinations that will give a 50 ohm input - How many depends on the range of values for the components. The one with the smallest circulating current and thus the least loss is the one that should be chosen - and that usually is the one with the least inductance consistent with the maximum capacitance on the output side.

----- Original Message -----

From: "George, W5YR" <w5yr@att.net>

>

> If that impedance is outside the range of the tuner, then no amount of  
> juggling tuner controls will do the job. If the impedance is on the raw  
> edge of being within the tunable range, then a "match" might could be  
> made, but the L and C values might be far from the best, so that losses  
> increase in the tuner. I suspect that a lot of anecdotal tales about  
> tuner losses come from this marginal situation.

>

>

-----

Date: Mon, 22 Jan 2001 15:10:58 -0700 (MST)

From: "Karl F. Larsen" <k5di@zianet.com>

To: "Joel Kluender, NF9K" <nf9k@eudoramail.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [89300] Re: end fed half wave info?

Message-ID: <Pine.LNX.4.31.0101221509560.805-1000000@cannac.ampr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

It is called the J antenna in the 1948 ARRL Antenna Handbook, and every one since then.

On Mon, 22 Jan 2001, Joel Kluender, NF9K wrote:

> All,

>

> If anyone has information on an end fed half wave fed against a quarter wave counterpoise, I'd appreciate you sending it one to me. I recall seeing some discussion of this and I think that there was a simple tuning scheme that was described.

>

> Thanks,  
> Joel NF9K  
> ---  
> Joel Kluender, NF9K  
> 870 Prairie Street S.  
> Shakopee, MN 55379  
>  
> Great is the Lord, and worthy of praise!  
>  
>  
>  
> Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at  
<http://www.eudoramail.com>  
>  
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

-----  
Date: Mon, 22 Jan 2001 16:10:03 -0600  
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>  
To: qrp-l@Lehigh.EDU  
Subject: [89301] Re: Dumb Aerial Question  
Message-ID: <3A6CAFBB.A505F8D3@arrl.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Depends on what you actually have, I think. A lot of widely varying things have been sold with the "G5RV" label stuck on them. If you look at Varney's original description of his antenna design, though, you will find that a tuner is needed for all but one band. I think the one that didn't need a tuner was 20 m. and that is because the balanced feed line is cut to a certain length that will result in low SWR on 14 MHz. Any other band needs a tuner.

This description is from memory, may not be precise:

A "real" G5RV is a doublet (length approx. 133 ft.) with open wire or twinlead balanced feed (length approx. 35 ft. if memory serves) and then a balun and coax feed from that point. The antenna is to be raised to a height of at least 40 ft. so that the balanced feed portion hangs down at a 90 degree angle to the flat top elements.

If what you have doesn't use coax feed with a matching section made

of balanced feed, it isn't a G5RV though it may perform equally well. If it feeds directly into balanced line, you almost certainly need a tuner for everything. If the balanced matching section is of some length other than Varney's original specification, then it may be cut for some band other than 20 m. (without a tuner) and still might work on all bands (with a tuner).

The balun may be omitted (at least one published article says it isn't needed) but the balanced feedline switching to coax at the shack end is the primary characteristic of this design.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>  
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg  
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

-----  
Date: Mon, 22 Jan 2001 17:17:51 EST  
From: RangerSF5@aol.com  
To: w5yr@att.net, QRP-l@lehigh.edu  
Subject: [89302] WHAT THE TUNER MANUAL SAYS  
Message-ID: <72.724513b.279e0b8f@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi George,  
Thanks for the nice write up on the antenna tuner.  
To be honest with you I did buy a used tuner (a matching unit for the 901 DM. However I'm lucky enough to be on the 4th floor and have a ham for a landlord. By this weekend i'll have 1 antenna for each band but since I really don't care for 15 meters I may load into 40 with the tuner and have a cut and pruned "V" for 17.  
So I guess my antenna/tuner problems are nil.  
I also had the power Company out here today and while I was out they left a message on the machine telling me they located the problem and corrected it. So i'm back to an S-1 to S-3 noise level.  
Not bad for a living right in the middle of the town.  
Many thanks to all for advice,input,ect.  
Back in my bunker.  
Bob  
WA2HQrp <tm>

-----  
Date: Mon, 22 Jan 2001 17:26:17 -0500  
From: "John J. McDonough" <[wb8rcr@arrl.net](mailto:wb8rcr@arrl.net)>  
To: "Low Power Amateur Radio Discussion" <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>

Cc: <hattonte@gdls.com>  
Subject: [89303] Re: Best source: copper clad board  
Message-ID: <005f01c084c2\$7b9bbde0\$010044c0@baycty1.mi.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well, I didn't make it to Hazel Park, but I expect it's the same guys who have shown up at other Michigan 'fests. And if it is, you will be getting that old glass-epoxy board, not that nice phenolic stuff that crumbles like crispy bacon when you nibble it to make Manhattan pads!

By buying that cheap stuff, you miss out on the excitement of new and unusual shapes for your Manhattan pads, or the wonder of the strange paths the RS copperclad can find when you try to cut it. What fun is that?

72/73 de WB8RCR      <http://members.home.com/wb8rcr/index.htm>  
didileydadidah      QRP-L #1446 Code Warriors #35

----- Original Message -----

From: <hattonte@gdls.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Sent: Monday, January 22, 2001 11:52 AM  
Subject: Best source: copper clad board

> Went to a local swap here in Detroit (Hazel Park) where there were two  
> tables selling offcut pieces of double sided Copper clad board. The  
going  
> price seems to be about a dollar a square foot. Which beats the Shack by  
> a factor of around ten!  
>  
> Terry  
> Oink oink  
>  
>

-----

Date: Mon, 22 Jan 2001 14:51:48 -0800 (PST)  
From: Bill ROWLETT <kc4atu@yahoo.com>  
To: qrp-l@Lehigh.edu  
Subject: [89304] Re:Corrosion/stranded wire  
Message-ID: <20010122225148.9844.qmail@web803.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Karl,

What you say is true for any connection made to the insulated wire which is not weather proofed. Any time the insulation is removed for the purpose of making a connection, feed line or at the end insulator, good engineering practices call for weather proofing with heat shrink, coax-seal and a good grade of tape tightly wrapped on top. This not only keeps the moisture out but also will add strength to the connection.

THIS WILL NOT LAST FOR EVER. Most of us, myself included, do not always maintain the wire antennas as they should be. The joints should be checked on at least a 12 month schedule for structural strength and all weather proofing should be replaced at that time. Feed lines need to be checked as well and coax should be replaced at least on a 5 yr schedule.

There was a post on this last week from someone wanting scientific facts to prove that the insulated wire produced less static. This I do not have. These observations are from using both types of wire and finding that the insulated was quieter then the un-insulated. All of us have different hearing, so if it works for you, great, if not, that is ok too. It just proves the point that we are all different and what works for one may not work for another. Give it a try, at least wire is one of the cheaper parts of this hobby.

73, Bill

-----  
Do You Yahoo!?

Yahoo! Auctions - Buy the things you want at great prices.  
<http://auctions.yahoo.com/>

-----

Date: Mon, 22 Jan 2001 14:53:34 -0800  
From: "Phinizy, William" <wphinizy@filenet.com>  
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [89305] FS: Last Call on Freq Counter and SWL Receiver..  
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B7697E@hq-expo2.filenet.com>

TenTec 1254 SWL 100 KHz - 30 MHz PLL Receiver. Recently built and tuned up. Built cleanly, Works marvy, but I realize I have too many receiving devices per unit/shack. Have not added the 9-volt battery backup and only modification is that I (cleanly) replaced the antenna phono connector with a BNC connector. Kit cost me \$200 asking \$180 + s&h (OBO, of course).

OPTOELECTRONICS (OptoElectronics?, Optoelectronics?) model 3300 hand-held frequency counter. Clean, accurate, works perfect, with wall wart and rubber duckie. Asking \$75 + s&h (OBO). Some scratches on case and some small "LCD flecks" on the middle center of the LCD display.

Respond to k6whp@arrl.net and/or k6whp@gte.net

W. H. Phinizy, K6WHP  
Principal Engineer  
FileNET Corporation

-----  
Date: Mon, 22 Jan 2001 17:23:15 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: ka9nzi@arrl.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [89306] Re: Dumb Aerial Question  
Message-ID: <3A6CC0E3.1D686432@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Couple of points:

1. Varney's design for a 102 ft flat-top was selected to be three half-waves on 20.

2. He recommended that the antenna be fed with ladderline and with a tuner; his use of the stub and coax was for convenience in his installation (only) for 20 meters (only). It happens to work (somewhat) on other bands as well.

Some have said that the open-wire section is "part of the antenna." Not so.

It is purely a matching stub and did not radiate in Varney's design. Lord knows what some of the things being sold as "G5RV" antennas will do.

ANY flat-top at least 102 ft long and fed with ladderline will perform at least as well and probably better than Varney's design. That length is special only for being three half-waves on 20 with a reasonable center feedpoint impedance and with a radiation pattern that Varney happened to want.

I prefer an 88 ft flat-top which gives me 3 db broadside gain on 20 - it is called an Extended Double Zepp, not a "W5YR." Fed with ladderline, it works very well on all bands from 80 to 10 - this Fall/Winter, it has become my main Fox Killer on 40! <:}

72/73, George    W5YR - the Yellow Rose of Texas            NETXQRP 6

Fairview, TX    30 mi NE Dallas in Collin county            QRP-L 1373  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

Gary Lee Phillips KA9NZI wrote:

>  
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> things have been sold with the "G5RV" label stuck on them. If you  
> look at Varney's original description of his antenna design, though,  
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> the one that didn't need a tuner was 20 m. and that is because the  
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> cut for some band other than 20 m. (without a tuner) and still might  
> work on all bands (with a tuner).  
>  
> The balun may be omitted (at least one published article says it isn't



> needed) but the balanced feedline switching to coax at the shack end is  
> the primary characteristic of this design.

-----

Date: Mon, 22 Jan 2001 09:40:02 -0500  
From: Shelly Somerville <somerville@uniserve.com>  
To: aweiss@usd.edu  
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>  
Subject: [89307] Re: about tuner losses -- "can't be true"  
Message-ID: <3A6C4642.E495B032@uniserve.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Great stuff. However my lack of knowledge shows because I miss the  
significance of: " I  
wonder how the newsgroupies  
explained the fact that Witt could match a dead short on the Heath tuner  
to a 1:1 SWR?"

73 John/VE7CFG  
Adrian Weiss wrote:

> Hi gang:  
>  
> The tuner losses thread is another example of a problem that frequently  
> occurs here.  
>  
> On the one hand, Dave W9VES provided a very lucid explanation of the  
> quantitative meaning of tuner loss, i.e., 0.5dB, which doesn't sound like  
> much, translates into a 11% power absorption by the resistive components  
> in a tuner. Dave referenced Frank Witt's articles in QST, and provided the  
> links to .pdf copies of them. As Witt pointed out, and as everyone has known  
> ever since the effect of a conductor on the flow of r.f. current was revealed,  
> loss occurs. The wire comparisons thread taken from QEX quantified the  
> amount of loss occurs for various conductors. Ergo, every tune exhibits some  
> loss, regardless of the circuit configuration or materials used.  
>  
> Bob Kellog produced several posting about 4 years ago about results of his  
> use of Witt's method. Does anyone know if these are archived somewhere?  
> I bought the ZM-2 after he found that it was the most efficient tuner he  
> had tested.  
>  
> Next, Andy W9NJY posted on an alternate method using a Bird Wattmeter and  
> thermocouple readings. He described his methodology very clearly, and without  
> having an E.E. degree, it sure sounds just like stuff I've read in Journ. IEEE.  
>

> Way back several years, I described a much less accurate method than  
> either Witt's or Andy's. For me, the key was radiated power vs power into the  
> tuner. So, field strengths were the basis of my comparing several tuners. This  
> kind of comparison can be done with accuracy, but I'll leave that up to some  
> more dedicated individual --I just wanted to satisfy myself as to which tuner  
> I'd go with for balanced line. Anything using a balun out of a "T" or "L" to  
> achieve balance had two problems. Feeder currents were not equal. And they  
> all were at least 1dB (switchable attenuator) below various homebrew tuners.  
>  
> In any event, so much for the measurements and testing department and on  
> to a frequent "source" for postings here: the well-known antenna newsgroups.  
> It appears that the experts on those newsgroups decided that Witt's method  
> was not trustworthy. So, "over 10% [loss] is not reasonable". As for Witt's  
> graphs and Kellogg's lists, well, they can't be right. I wonder how the  
newsgroupies  
> explained the fact that Witt could match a dead short on the Heath tuner to  
> a 1:1 SWR?  
>  
> Now remember, we're not talking about the transmitter output dropping and making  
> the power out of the tuner seem less. Power is being measured on both sides!  
>  
> So, another caution to the learners on this list. Take a reference like "I read  
it on a  
> antenna newsgroup" with a grain of salt. B.S.E.E. types don't publish their  
> research on newsgroups. Their writing is subjected to peer review -- as is the  
> case with QST articles -- before it is published. Here ... well, any of us non-  
B.S.E.E.  
> types can toss in our two cents and get as much space as the next guy. And we  
> do!!!  
>  
> For us, it's best to refer to some real research and summarize it, providing a  
> reference to the real item. That's where you find out what is true.  
>  
> back in my hole....  
> 72, Ade

-----  
Date: Mon, 22 Jan 2001 17:34:00 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: RangerSF5@aol.com  
Cc: QRP-1@lehigh.edu  
Subject: [89308] Re: WHAT THE TUNER MANUAL SAYS  
Message-ID: <3A6CC368.6508C196@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Glad to be of some help, Bob. Sure wish I had your noise level!

72/73, George    W5YR - the Yellow Rose of Texas            NETXQRP 6

Fairview, TX    30 mi NE Dallas in Collin county            QRP-L 1373  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

RangerSF5@aol.com wrote:

>  
> Hi George,  
> Thanks for the nice write up on the antenna tuner.  
> To be honest with you I did buy a used tuner (a matching unit for the 901 DM.  
> However I'm lucky enough to be on the 4th floor and have a ham for a landlord.  
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> message on the machine telling me they located the problem and corrected it.  
> So i'm back to an S-1 to S-3 noise level.  
> Not bad for a living right in the middle of the town.  
> Many thanks to all for advice,input,ect.

-----  
Date: Mon, 22 Jan 2001 14:40:41 -0800 (PST)  
From: wa4dou@excite.com  
To: qrp-l@lehigh.edu  
Subject: [89309] Contest: MI QSO Party WA4DOU  
Message-ID: <17827216.980203243133.JavaMail.imal@seamore.excite.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello All,

Operated about 10-11 hours and the turn out wasn't great. Nevertheless, it was fun for those of us who did operate, i'm sure.

My results :

Band	QSOs	Points	Mult's
160	0	0	0

80	2	4	2
40	39	102	25
20	23	70	16
15	0	0	0
10	1	4	1
<hr/>			
Total	65	180	44

Total Score: 7,920 Points

Had several stations who answered and sent QRP ARCI membership number but it was detected by virtue of being too high to be a Michigan number.

Worked several stations running less than 1 watt:

- 1) WA3PTY Pa. 40 meters 850 mw.
- 2) N4DR Md. 40 meters 300 mw.
- 3) N6LIF Tx. 40 meters 400 mw.

Several stations that answered my cq's were running 10-100 watts.

Only country worked outside W/VE was France.

73 de Roy Lincoln WA4DOU Elm City, N.C.

TMPS- 12 states, 16 countries, 3 continents

---

Send a cool gift with your E-Card  
<http://www.bluemountain.com/giftcenter/>

---

Date: Mon, 22 Jan 2001 17:45:04 -0600  
From: "George, W5YR" <w5yr@att.net>  
To: Don Wilhelm <w3fpr@arrl.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89310] Re: What tuner manual says  
Message-ID: <3A6CC600.5F503033@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

That is correct, Don, and I should have pointed that out.

My remarks were based on the notion that the tuner would always be "correctly" adjusted in any event. To me, that means - as you point out - minimum L and maximum C, especially the output capacitor. Seeking that combination will usually avoid 99% of tuner ailments, including excessive loss for loads that are in range.

While I am at it - again! - let me describe an interesting little experiment that someone might like to try:

1. Connect a 50-ohm dummy load to the OUTPUT terminals of the tuner.
2. Connect an impedance bridge to the input. Some of the "antenna analyzers" might do here if they can correctly read reactance as well as resistance. The AEA/CIA unit, for example, can.
3. Armed with pencil and lots of paper, probe around for as many combinations of R and X as you can generate with the tuner controls. Warning: this can take a LONG time . . . <:}
4. Now, armed with either a good calculator or a suitable program - even the old ARRL LC slide rule will do - convert all those R and X readings into R, C and L values.
5. Now, you know what ranges of R and associated X ( in terms of C and L ) your tuner can transform into 50 ohms resistive. The best way to finish this up is to plot this data on a Smith Chart so that you can then overlay any feedline Z measurement and see if it is "tunable."

Makes for an interesting rainy day exercise . . . gives a little insight as to why most tuner makers do not provide this information for you, instead of vague claims of SWR, power, etc.

72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373  
Amateur Radio W5YR, in the 55th year and it just keeps getting better!  
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

Don Wilhelm wrote:

- >
- > George and all,
- >
- > The tuner loss is not necessarily a result of a load that is outside the
- > range of the tuner.
- > For the "T" match tuners, even within the tuner's range of loads, there can
- > be any number of setting combinations that will give a 50 ohm input - How
- > many depends on the range of values for the components. The one with the

> smallest circulating current and thus the least loss is the one that should  
> be chosen - and that usually is the one with the least inductance consistent  
> with the maximum capacitance on the output side.

-----

Date: Mon, 22 Jan 2001 18:59:18 -0500  
From: John Wagner <john@neknetwork.com>  
To: K4YBB@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [89311] Re: Dumb Aerial Question  
Message-ID: <3A6CC956.F6C68C2D@neknetwork.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Jim,

No one here can answer that for you, there are too many variables.  
Chances are the G5RV you have is resonant on a band or two without a  
tuner, however you will need an SWR meter to check it.

My advice is get a tuner with an SWR meter (like an MFJ) and use it with  
the G5RV.

73,

John, KB1ENS

K4YBB@aol.com wrote:

>  
> QRP-L inc.  
>  
> I have acquired a "G5RV" antenna without any paper work. My question:  
> Can I use this antenna for 80 and 40 meters withOUT a tuner or is a tuner  
> absolutely necessary? I know, DUMB question, but I don't want to smoke this  
> solid state rig cause them squiggly little kritters in thar cost lotsah  
> dollars.  
> Info appreciated. Thank you.  
>  
> 72 / 73  
>  
> Jim K4YBB

--

John Wagner - john@neknetwork.com  
Web page: <http://www.neknetwork.com>  
Personal Web page: <http://www.together.net/~jwag>

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End of QRP-L Digest 2075

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